Weidmüller

M-Print® PRO

User Manual

Manual Version 2015-01

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Introduction

About M-Print® PRO

The program is used to caption and print labeling materials (MultiCard mats, inserts and labels).

Printable materials are:

- MultiCard mats
- Sleeve inserts on pages
- Labels on pages
- Endless labels on rolls
- Shrink tubings
- MetalliCards

The program has to be installed on a local computer. No server version is available.

About this manual

The manual assumes that you have practical experience of the Microsoft Windows operating system used by the software.

If you are not familiar with the basics of Windows, please refer to the Windows user manual.

Layout and format

This user manual applies the following conventions:

Bold Important elements in the program like buttons, menu items, toolbars, names, etc. are shown in bold.

" " Names of windows and references to other chapters and sections are enclosed in double quotes.

> This character separates two successive menu items (e.g. **View** > **Zoom**)

- This symbol means that the actions which follow must be carried out in the specified order.

Symbols used

☝ Indicates that this is essential information about M-Print® PRO.

Indicates that this is useful additional information.

Definitions

This section explains the special terms that are used in the M-Print® PRO software.

Marker
A marker is used to identify an electrical or electronic element (terminal, conductor, system, device, etc.) and also to caption an asset.

Marker type
Marker of a specific type, e.g. MultiCard DEK 5/3,5.

Installation note

☝ In order to install the program you need administrator rights on the computer involved.

General operation

Introduction

This chapter explains the various ways you can start and exit the program.
You will also find general information about the program structure and the layout of the user interface.

Starting / exiting the program

Starting the program

Double-click on the icon on your computer desktop.

Exiting M-Print® PRO

Select **File** > **Exit on the menu bar.**

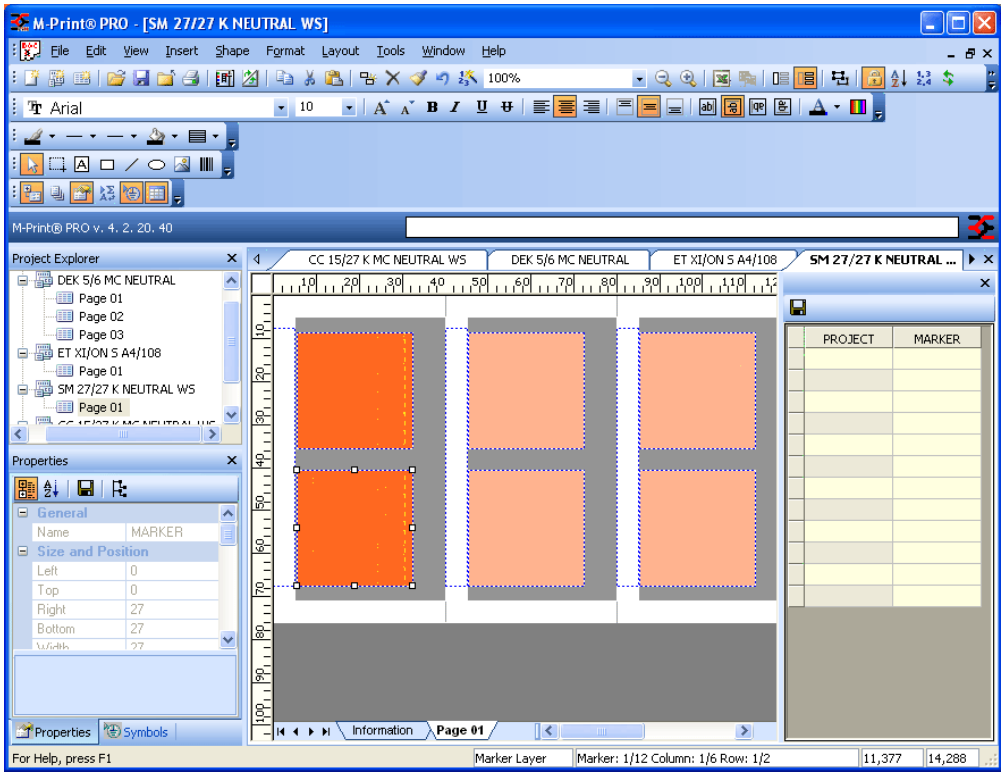
If a project is still open, a dialog box appears where you can save the project.

User interface

The user interface is where you edit the markers.

It is displayed automatically when you start the program. The user interface contains everything you need for editing a marker.

The user interface can consist of different elements, depending on the configuration.



You will find more information in chapter "User interface".

Supported file types

The following file types are supported when files are opened:

- M-Print® PRO File (*.mpc)
- M-Print® PRO Order File (*.mpo)
- M-Print® PRO Template (*.mpt)
- M-Print Document (*.abp, *.gdc)
- M-Label Document (*.mld)
- M-Comm Document (*.tmf)
- RailDesigner Export File (*.rde)
- TXX/TXY Files (*.txx; *.txy)
- Microsoft® Excel® Worksheet (*.xls)
- XMT File (*.xmt, *.txt)

Commonly used functions

This section describes the commonly used functions by way of example.

Editing elements

You can create elements by selecting "Insert" from the menu bar or via the "Elements" toolbar (see chapter "Toolbars").

Before you can edit one or more elements, you first have to select them. (See chapter "Selecting elements").

See also chapter "Editing options in the Properties window".

When inserting elements or subsequently changing their size, it is possible to retain or change the symmetry of the elements (see chapter "Symmetry of elements").

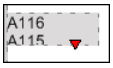
Inserting a text field

Create new text field
Click on this toolbar icon or select **Insert** > **Text Field on the menu bar**.
Move the mouse to where you want to enter the text.

Create new rounded text field
Same functions as a normal text field. Select **Insert** > **Rounded Text Field**.
Use the "Anchor angle" property to determine the start angle of the text.

If the mouse pointer looks like this, you can create a text field.
Press and hold down the left mouse button. Drag the mouse to create a frame and release the mouse button. An editing field opens where you can enter text.

You can only enter text in text fields:
if the mouse pointer looks like this, you cannot enter text.



If a text field shows a red triangle when text has been inserted, the text does not fit into the field. Not all of the text is displayed or printed. In this case you must shorten the text or let the program fit it automatically (see "Adjusting the font size" in chapter "Format menu").

If a text field shows an orange triangle when text has been inserted, single-line text is displayed in multiple lines because the text field is too narrow. (See "Adjust marker length" in chapter "Format menu").

Inserting a shape

Create rectangle / square

Click on this icon or select **Insert** > **Rectangle** on the menu bar.

Hold down the left mouse button and drag the mouse to create a rectangle.

Use the "Rounding X" or "Rounding Y" property to turn a normal rectangle into a rounded rectangle.

Create rounded rectangle / rounded square

Click on this icon or select **Insert** > **Rounded Rectangle** on the menu bar.

Hold down the left mouse button and drag the mouse to create a rounded rectangle.

Rounded rectangles only differ from normal rectangles due to the set "Rounding X" or "Rounding Y" property. If these values are set to 0, a normal rectangle is displayed.

Draw line

Click on this toolbar icon or select **Insert** > **Line** on the menu bar.

Hold down the left mouse button as you draw the line.

Draw circle / ellipse

Click on this icon or select **Insert** > **Ellipse** on the menu bar.

Hold down the left mouse button and drag the mouse to create an ellipse.

You can set the exact size and position in the "Properties" window (see section "Properties window").

Inserting an image

The program supports the image formats BMP, EMF, GIF ICO, JPG, PNG, WMF and TIFF.

Insert image

Click on this icon or select **Insert** > **Image** on the menu bar.

Hold down the left mouse button and drag the mouse to create a frame. A selection dialog appears where you can select the image file and open it by clicking on the **Open** button. The selected image is inserted.

In the "Properties" window you can specify whether you want to keep the image in its original size or resize it to fit the frame.

Images are not embedded in the field. The field only contains a link to the file. The path is displayed in the "Properties" window (see section "Properties window").

Inserting a barcode

The program supports the following barcode types:

- Code 39
- Code 128
- Code 2/5 Industrial
- Code 2/5 Interleaved
- EAN13 (with/without check digit)
- EAN8 (with/without check digit)
- EAN128
- UPC-A (with/without check digit)
- UPC-E (with/without check digit)
- QR-Code
- DataMatrix

Inserting a barcode

Select **Insert** > **Barcode** on the menu bar.
A drop-down field shows the barcodes that can be selected.

Drag the mouse to create an area and release the mouse button. The selected barcode is inserted.

In the "Properties" window you can enter the numeric or alphanumeric code (see section "Properties window").

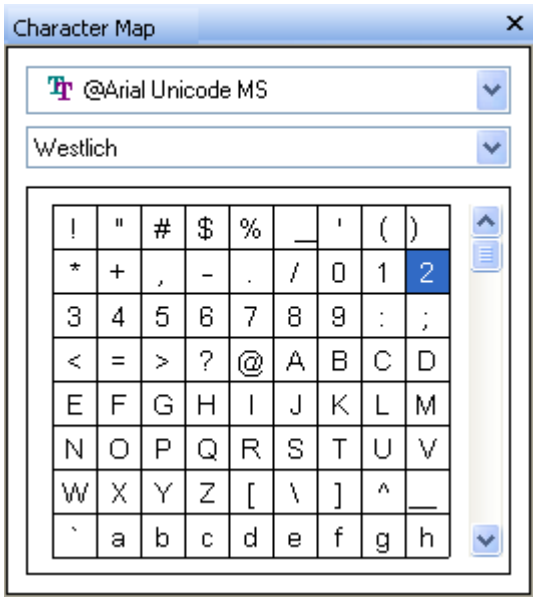
An internal check digit (e.g. code 8) is calculated for certain barcodes. This check digit must neither be entered manually nor imported with the barcode value.

If the check digit is transferred or entered, a different barcode type must be selected (e.g. "EAN 8" with check digit).

Inserting special characters

You can use the character map to select a font and see all characters and special characters that are available with that font.

To open the character map, select **View** > **Character Map** > **Font** on the menu bar.



- Click on the upper arrow to select the font, and on the second arrow to select the language.
- Position the cursor where you want the character to appear.
- Double-click on the character you want to insert, and it appears in the selected text field.

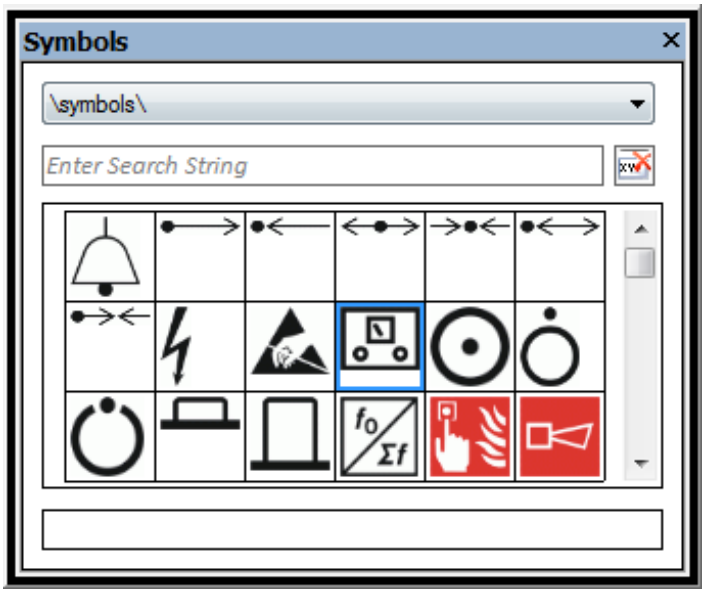
You can also use the shortcut menu to copy a character from this window:

- Select the character you want to copy, press the right mouse button and select **Copy Character**.
- Position the cursor where you want the character to appear (inline editor), press the right mouse button and select **Insert** on the shortcut menu.

Inserting symbols

You can select and insert symbols using the Symbol Explorer.

On the menu bar, select **View > Symbols** to open the Symbol Explorer.



Insert symbol

- Click on the symbol you want to insert.
- Move the mouse to the field you want to contain the symbol.
- Hold down the left mouse button and drag the mouse to create a rectangle. The symbol is inserted in the field.
- You can resize the symbol by clicking on it once and dragging the corners to make the rectangle larger or smaller.

Alternatively:

- Select the field in which you want to insert the symbol.
- Double-click on the symbol that you want to insert.

You can adjust the appearance of the symbol via the "Size" property (see section "Behavior" in chapter "Adjusting properties").

Symbol directory

The drop-down field is preset to the default directory for symbols. For changes to the path, see chapter "Options dialog", section "Directory".

Searching/filtering the symbol directory

You can enter a string to search for or filter symbol files.

The following options are available:

Keyword(s)	Result
	If the search field remains empty, the entire content of the selected directory is displayed.
Symbol00?	A question mark is the wildcard for one character. The program will find, for example, "Symbol001.bmp" and "Symbol002.bmp".
Symbol*	An asterisk is the wildcard for any number of characters. The program will find, for example "Symbol010.bmp" and "Symbol020.bmp".

To reset the search field, click on .

Inserting a scale

Straight or rounded scales can be inserted.

Create new scale
Click on these icons on the toolbar or select **Insert** > **Scale** or **Rounded Scale** on the menu bar.
Drag the mouse to create an area and release the mouse button.

A dialog opens in order to set the key data of the scale.

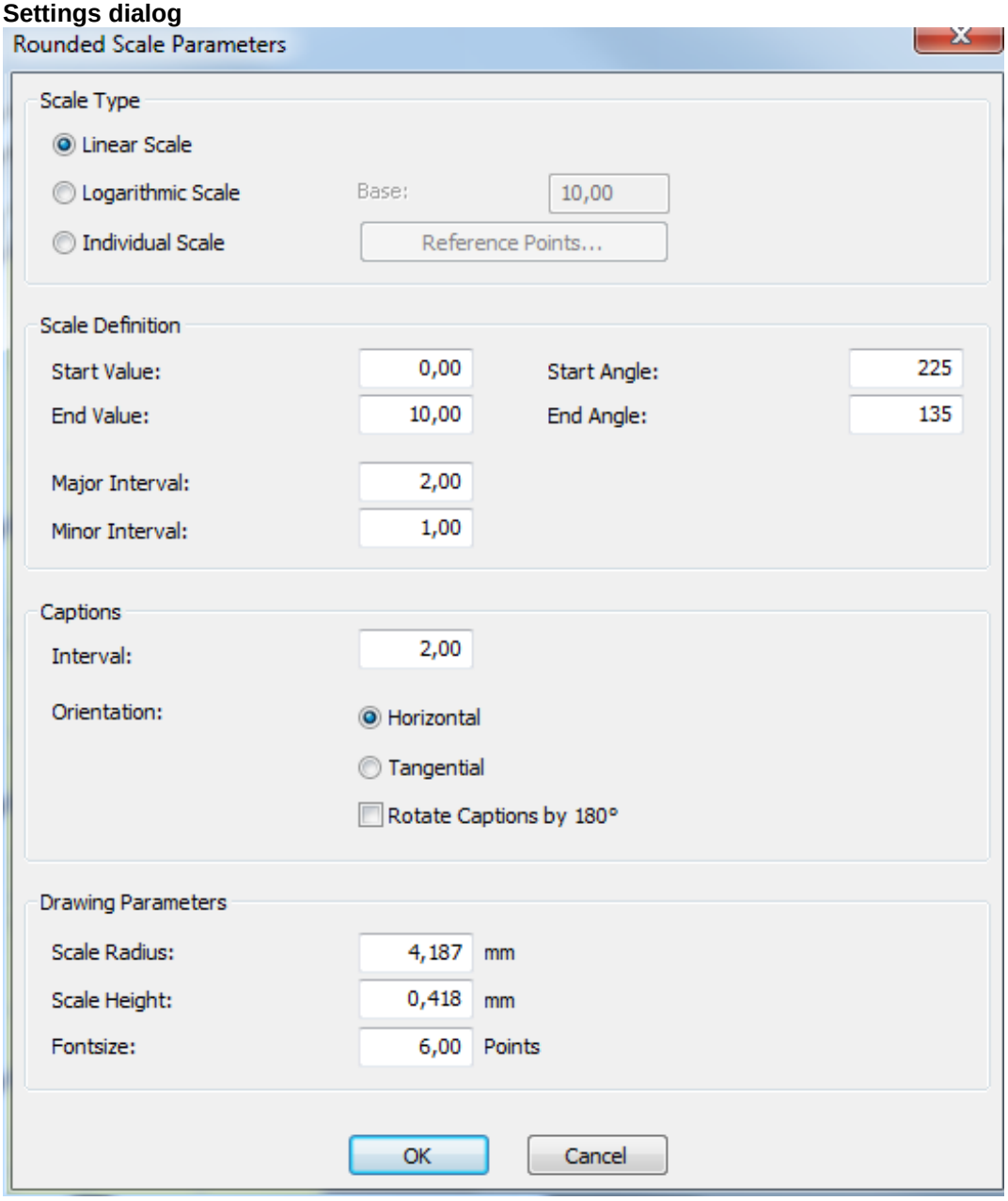
- Select the type of scale and set the values, intervals and captions.
- Scale captioning depends solely on the start and end value and the caption interval.

  Example 1:
  If start value = 0, end value = 8 and caption interval = 2, the following sequence is generated: 0, 2, 4, 6, 8

  Example 2:
  If start value = 1, end value = 100 and caption interval = 20, the following sequence is generated: 1, 21, 41, 61, 81
  In this case, the end value 100 is not shown.
- The intervals of the tick marks (major / minor interval) always relate to the value range.

  Example:
  Value range (start / end value) from 0 to 50 and major interval = 10.
  6 major tick marks are shown (0, 10, 20, 30, 40, 50).
  If caption interval = 10 is additionally selected, each major tick mark is also captioned.

Settings dialog



Scale type
Appearance of the grid dimension. The following can be selected:

Linear:	The pattern of the value range is linear.
Logarithmic:	The pattern of the value range is square, i.e. a logarithmic scale is shown.
Adapted:	The pattern of the value range is defined by reference points. The pattern between reference points is linear (see chapter "Reference points").

Start value
Caption at the start of the scale

End value
Caption at the end of the scale

Major interval
Interval between the major tick marks (measured at the value range)

Minor interval
Interval between the minor tick marks (measured at the value range)

Start angle (only rounded scale)
Angle at which the rounded scale starts (see also chapter "Rounded scale".

End angle (only rounded scale)
Angle at which the rounded scale ends (see also chapter "Rounded scale".

Interval
Caption interval to the next caption in each case (from the start value)
Example: If start value = 0, end value = 8 and caption interval = 2, the following sequence is generated: 0, 2, 4, 6, 8

Alignment (only rounded scale)
Appearance of the caption. The following can be selected:
Horizontal: The caption is shown horizontally
Tangential: The caption is shown tangentially (in the direction of the circle).

The caption can be rotated by 180° for both alignments.

Scale length or Scale radius
For a straight scale, the length of the inserted scale element.
For a rounded scale, the inner radius of the scale element.
The value is preset when dragging the element with the mouse.

Scale height
The scale height corresponds to the height of the major tick marks.
The value is preset when dragging the element with the mouse.

The minor tick marks are always half as long as the major tick marks.

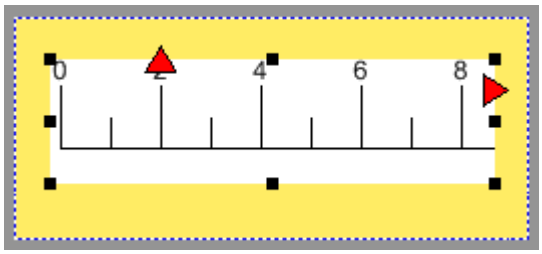
Font size
The font size of the caption.
The value is preset when dragging the element with the mouse.

You can set the exact size, position and caption of the scale in the "Properties" window later (see section "Properties window").

For further information and examples, please refer to chapter "Scales".

Appearance information

If a scale shows red triangles, the chosen values do not fit into the dimensions of the scale element. In this case, use the mouse to enlarge the element in the displayed directions.



Snapping elements to the grid

To specify whether you want the elements to snap to the gridlines or not, select **View > Grid > Snap to Grid**.
The grid must be visible (Menu **View > Grid > Show**).

Selecting elements

Select element
After clicking on this icon, you can click on an element to select it.

Select multiple elements
If the elements you want to select are next to each other, you can select them all in a single action by dragging a frame around them.
Click on this icon to activate the frame to select elements. Press and hold down the left mouse button. Drag the mouse to create a frame around the elements you want to select.

Moving elements

Elements on the project layer or marker layer can only be moved **within** the defined project area or marker area.

- Select the element you want to move by left-clicking on it. When you move the mouse pointer over the element, it changes into the following shape, which means you can move the element:

Hold down the mouse button and move the element to its new position.

Another way of moving an element is to define settings in the "Properties" window (see section "Properties window", "Size and position" category. You can enter exact values here.

Rotating elements

- Click on the element (text, shape, image, barcode) you want to rotate.
- Select **Shape** > **Rotate…**.

The following window appears:

Specify the details of the rotation you want, then confirm by clicking on OK.

Note that, if necessary, the element will adapt to the dimensions of the marker area when it is rotated.

Example:

This image shows the element before it is rotated:

... and after the rotation:

Copying and pasting elements

In the course of copying and pasting, only the document-individual properties can be transferred.

However the properties are only transferred to their full extent if the same element type is involved (e.g. text on text, image on image).

- Click on the element(s) you want to copy.
- Select **Edit > Copy**.
- Click on the element that you want to paste into.
- Select **Edit > Paste** to paste the content OR **Edit > Paste Elements** to paste the element.

Not all elements can be pasted into other elements.

Cutting and pasting elements

- Select the element you want to cut.
- Select **Edit** > **Cut**.
- Click on the element that you want to paste into.
- Select **Edit > Paste** to paste the content OR **Edit > Paste Elements** to paste the element.

Not all elements can be pasted into other elements (see chapter "Copying and pasting elements").

Duplicating elements

- Select the element you want to duplicate.
- Select **Edit > Duplicate**.
- The duplicated element is placed slightly offset on top of the original element.

Deleting elements

- Select the element you want to delete.
- Select **Edit > Delete**.
- In the **Delete** submenu, you have the following items to select from:

Field content	Only delete the content of the elements.
Entire field	Delete the entire field.
Selected markers	The entire markers with the selected elements on them are deleted without a confirmation prompt.
This page	The currently visible page is deleted.
Pages...	A dialog opens to delete several pages.

If a menu item is not available (grayed out), the functionality for the selected situation cannot be used.

Locking elements

Text fields, image fields, barcodes and shapes can all be locked.

However, only in locked text fields is it still possible to change the content and formatting.

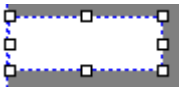
Among other things, the following properties are locked:

- Size and position
- Border and fill
- Field properties
- Orientation and tab order

- Select the element you want to lock.

Click on this toolbar icon to lock the selected element.

Example of a locked element



Creating square elements

For creating square elements, see chapter "Symmetry of elements"

Symmetry of elements

Symmetry of elements can be used to either keep the dimensions (aspect ratio) of the elements or to set them to the same values (square).

Various options are available:

Inserting while holding down the Shift key (square dimensions)
If you insert the elements while holding down the Shift key, the dimensions remain square.
Exceptions:

- Line – is inserted horizontally or vertically
- Rounded text field – is always rounded
- Scale

Dragging while holding down the Shift+Alt keys (setting square dimensions)
If you drag existing elements (multiple selection possible) at their corners while holding down the shortcut Shift+Alt, the dimensions are changed quadratically.
Exceptions:

- Line – is changed horizontally or vertically
- Scale

Dragging while holding down the Shift+Ctrl keys (keeping proportions)
If existing elements (multiple selection possible) are dragged at a corner while holding down the shortcut Shift+Ctrl, the proportions of the dimensions are kept. The aspect ratio is not changed.
Exceptions:

- Line – retains its angle
- Scale

Changing the order of elements

If a number of elements are arranged on top of each other, you can use the "Layout" toolbar to change the order of the elements.
The following settings apply to the selected element in the current layer.

The element is moved one layer forward.

The element is moved one layer back.

The element is brought to the front.

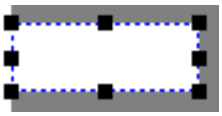
The element is sent to the back.

- Select the element you want to move, then click on the relevant icon.

You can also access these functions from the menu bar by selecting Shape and then the required layer setting.

Resizing elements

- Click on the element you want to resize.



- Drag the corners to make the element larger or smaller.

You can specify the exact dimensions in the "Size and position" category in the "Properties" window.

See section "Properties window".

Setting the same height

- Select the elements whose height you want to change, then click on this icon.
- To adjust the height, select **Shape** > **Same Height** on the menu bar.

Setting the same width

- Select the elements whose width you want to change, then click on this icon.
- To adjust the height, select **Shape > Same Width** on the menu bar.

Saving an image in a file

If you want to save **all** images embedded in the program file (e.g. for transferring the file), select File > Embed Image and Save As... and save the file under a different name.

All images are integrated/embedded in the file.
To save images embedded in files externally again, see chapter "Transferring an image from a file")

Transferring an image from a file

Images can be integrated in the program files (see chapter "Adjusting properties – Content"). The "Type" property of the image is set to the "integrated" value.

Proceed as follows to subsequently transfer these images from the file:

- Right-click on the integrated image.
- Select Save as Image... in the shortcut menu that opens.
- Select the path and image name and click on Save.

Grouping

Several (at least two) elements of a marker can be grouped.

- Select the elements to be grouped and select **Edit** -> **Group**.

It is possible to compile groups in further groups.

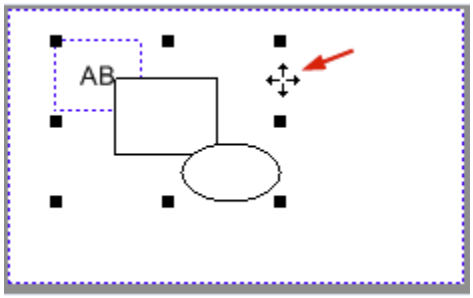
Changes to certain properties have an effect on the whole group (e.g. line thickness, fill color). The group is selected via the first click on a group element. A further click on an element selects the element in the group, allowing its properties to be changed (e.g. its text).

When a group is ungrouped, any groups within it are preserved.

Only elements of the same field type can be grouped (see also chapter "Field").

Selected elements within a group can be deleted from the group.

Moving a group with the mouse
A group can only be moved with the mouse at its outer limits. The mouse pointer changes accordingly.



Overview of existing groups
An overview of the existing groups is displayed in the object selection. A group can also be selected via this view (see chapter "Selecting elements").

Format Text

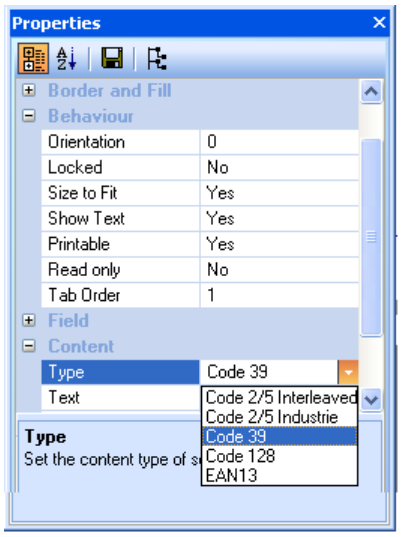
You can format text and set lines using the "Format Text" toolbar or the "Properties window".

Aligning text

To align text, select it and click the relevant icon in the "Format Text" toolbar.

Changing the barcode type

In the "Properties" window you can select a barcode type in the "Content" category (see also section "Content" in chapter "Properties window").



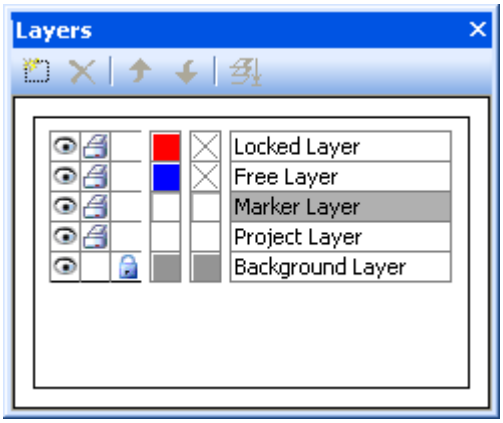
- Select the desired barcode type in the field "Type".
- Next, in the "Text preview" field, you can enter the numeric or alphanumeric code, depending on the barcode type.
- Certain barcodes have further properties which can be selected (e.g. size or ECC level for the error correction value).

Editing layers

The pages of a marker type are organized into layers.

The individual layers are edited in the "Layers" window.

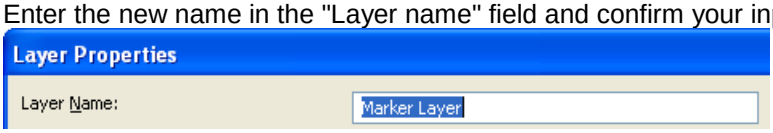
- To show or hide the layers, select **View** > **Layers** on the menu bar.
- Double-click on the layer you want to change (e.g. "Marker layer") to open the "Layer Properties" window.



Changing the layer name

You can change the layer name via the "Layer Properties" dialog box (see chapter "Editing layers").

- Enter the new name in the "Layer name" field and confirm your input by clicking on **OK**.

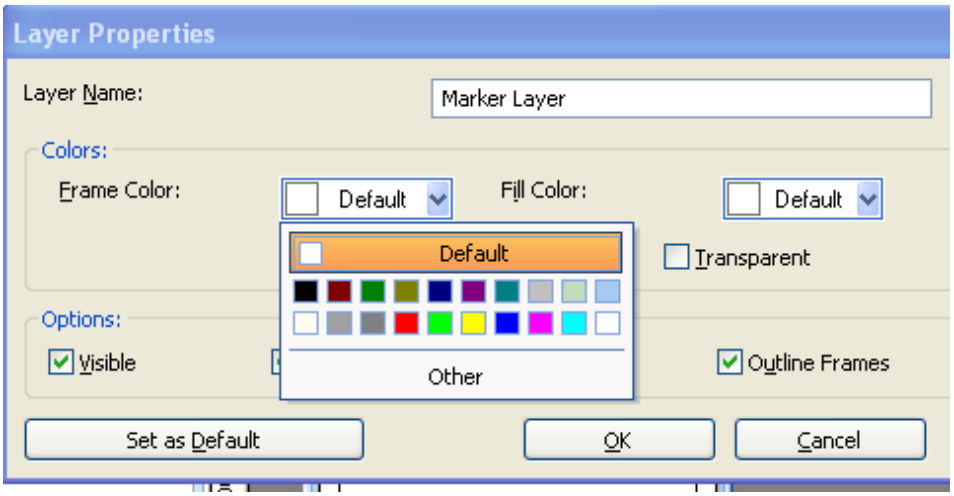


The new name applies to this file.

Changing the layer color

You can change the colors of layers in the "Layer Properties" window. To open it, double-click the name of the layer you want to change (see chapter "Editing layers").

- Click on the arrow in the relevant field to change the border and fill color. You can select a color from the drop-down field.



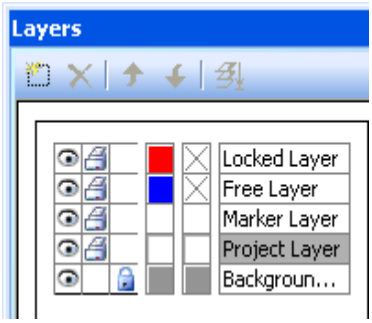
- You can click on the **Other...** button for advanced color selection options.

  Here you can select a standard color or create a custom color.

Hiding a layer

- To disable a layer so that it is no longer visible, click on the eye icon:

Layers not showing this icon will not be displayed.

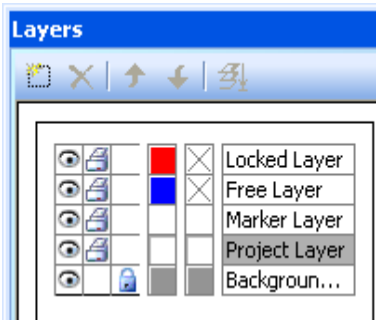


You can display the layer by clicking the box again.

Not printing a layer

- If you do not want to print a layer, click on the printer icon:

Layers not showing this icon will not be printed.



Adding a free layer

Unlike the other layers, free layers can be duplicated.

- Click on the following icon in the "Layers" window to add a new free layer.

If you click on the icon again, another free layer is added.

Removing a free layer

- In the "Layers" window, click on the free layer you want to remove. Click on this icon:

You can remove all free layers except for one, which must always be present.

Moving a free layer to another position

If you have created a number of free layers, you can move them in relation to each other, i.e. you can change the order of layers on top of each other.

The "Layers" window has the following icons:

Moves the layer up one layer.

Moves the layer down one layer.

- Select the free layer you want to move and click on the relevant button.

Reducing free layers to a single layer

Click on this icon to reduce all free layers to a single layer:

You cannot select individual layers and reduce them. It is only possible to reduce all free layers to a single layer.
Reduction to one layer cannot be undone!

Locking layers

You can lock specific layers to prevent the elements on them from being edited. Even text cannot be changed on a locked layer.

- Click on the layer you want to lock.
- In the "Layers" window, click inside the third column for the layer.

  The following icon appears.

  The layer is now locked and cannot be edited.

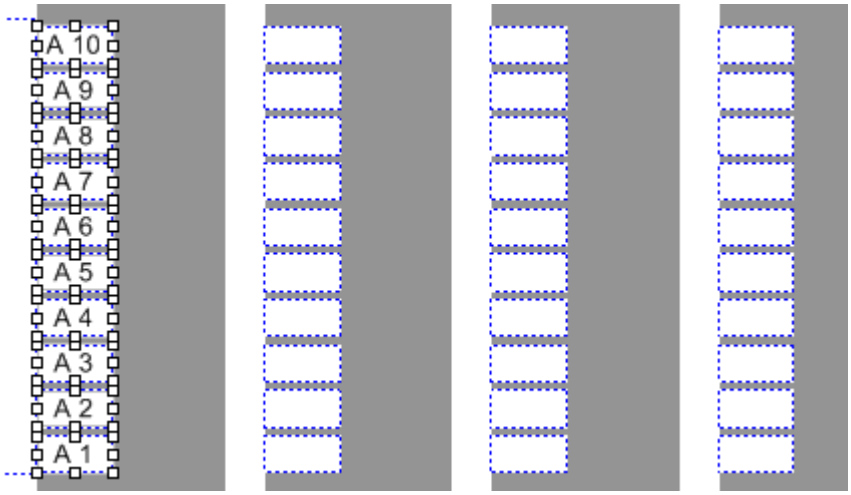
You can remove the lock by clicking on the field again.

Predefined text sequence

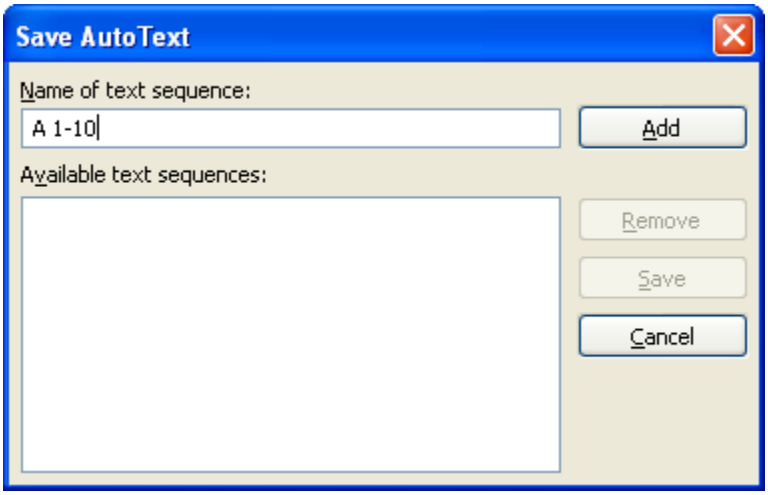
Defining a predefined text sequence

Follow these steps to define a text sequence:

- Open a marker type and insert the text to be saved (e.g. A 1 to A 10) into a text element.



- Select the text that you want to save as a text sequence.
- Select **Tools** > **Predefined Text Sequence…**.
- Give the text sequence a revealing name.



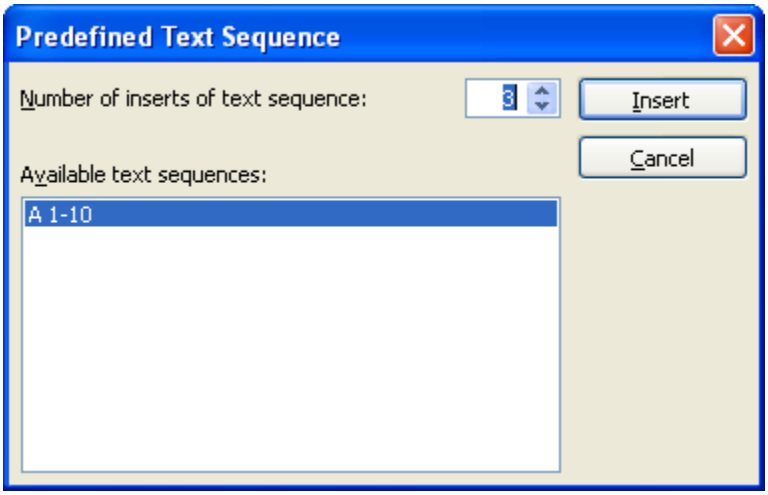
- Click on **Add** and then on **Save.**

To insert a predefined text sequence, see section "Inserting a predefined text sequence".

Inserting a predefined text sequence

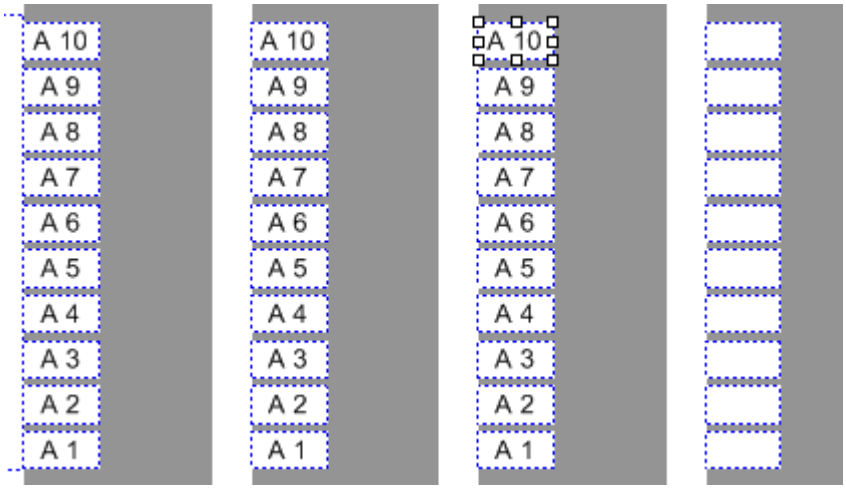
Follow these steps to insert a predefined text sequence (see "Defining a predefined text sequence"):

- Open a marker type and select the element after which you want to insert the predefined text sequence.
- Open **Insert** > **Predefined Text Sequence…**.
- Select the required sequence and the number of inserts.



- Click on **Insert**.

Here, the predefined text sequence was inserted three times:



Consecutive numbering

Introduction

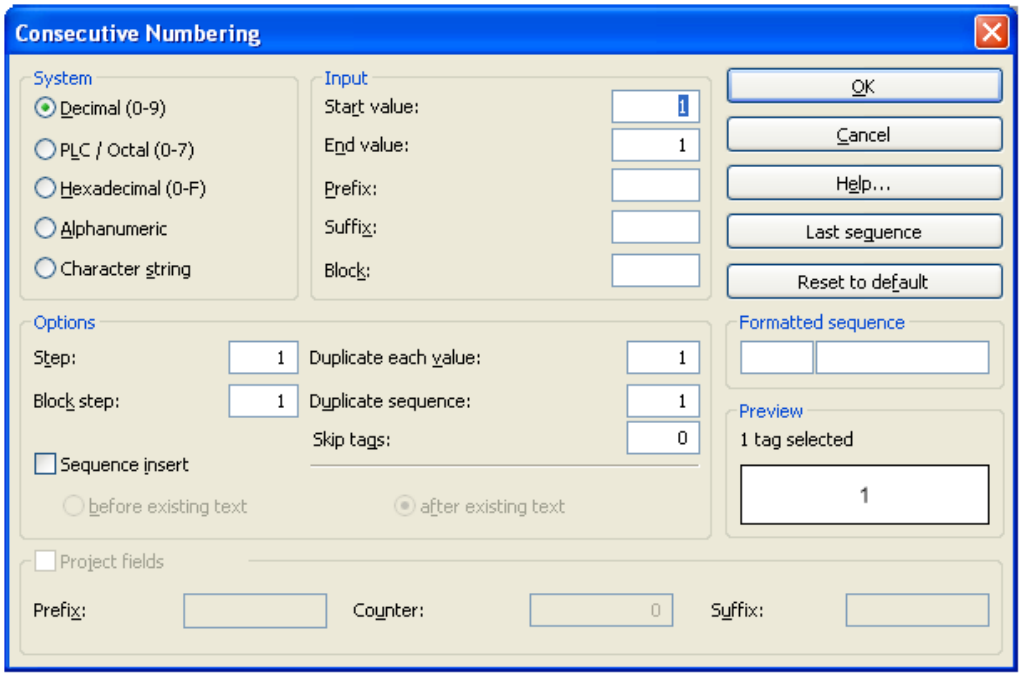
With the "Consecutive Numbering" function you can add consecutive numbers to marker types.

Only document-individual fields can be captioned with the Auto Fill function (see chapter "Properties window").

- Select the field or an area where you want the caption to appear.
- Select **Insert** > **Consecutive Numbering…**.

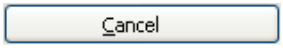
The window for consecutive numbering opens up.

Consecutive Numbering window



The window has the following buttons:

Click on the **OK** button to confirm your inputs.



Click on the **Cancel** button to cancel the process.

Click on the **Help** button to load the Help.

Click on the **Last Sequence** button to load the last sequence used.

Click on the **Reset to Default** button to restore the predefined default values.

In the "System" group, select the notation you want to use for numbering.

Decimal
This uses the decimal system, i.e. the ten digits from 0 to 9, then 10, 11, 12, etc.

PLC / Octal
Choose this option to set a PLC-specific caption format. The PLC caption format usually includes two counters, separated by a period (e.g. 4.0).

Counter Y uses the octal system from 0 to 7, and block counter X uses the start value in the "Block" field in conjunction with the block step. The "Prefix" field usually contains a letter (e.g. I for Input), and a suffix can also be defined (see example 2).

Hexadecimal
This notation is based on the hexadecimal system, which uses the characters 0 to 9, A, B, C, D, E, F.

Example: 0, 1, ….9, A, B, C, D, E, F, 10, 11, …,18, 19, 1A, 1B, 1C, 1D, 1E, 1F, 20, … 29, 2A, … 2F, 30, … etc.

Alphanumeric
Three numbering sequences are possible with this option: a to z or A to Z or 0 to 9.
Example: b to m (only one character is allowed, not AA to ZZ for example).

Character string
The same word is written to all the text fields, e.g. "ISB". Character strings: 1234 or ABCD or 1a2Bd3.

In the "Input" group, enter the following values:

Start value and End value
Numbering can be in ascending or descending order.

The values to which the "Start value" and "End value" fields are automatically set depend on the number of fields selected.

Prefix
You can prefix one or more alphanumeric characters to the counted value. (e.g. Conductor or C or 2004-)

Suffix
You can append one or more alphanumeric characters to the counted value (e.g. left or X).

Block
This software defines a block as an additional counter inserted between the prefix and the start value.

The "Options" group is where you make the following settings:

Step
Here you define the value by which the start value will be incremented/decremented.

Examples:

If start value = 1, end value = 20 and step = 3, the following sequence of numbers is generated: 1, 4, 7, 10, 13, 16, 19

If start value = 8, end value = 2 and step = 2, the following sequence is generated: 8, 6, 4, 2

If start value = A, end value = K and step = 2, the following sequence is generated:
A, C, E, G, I, K

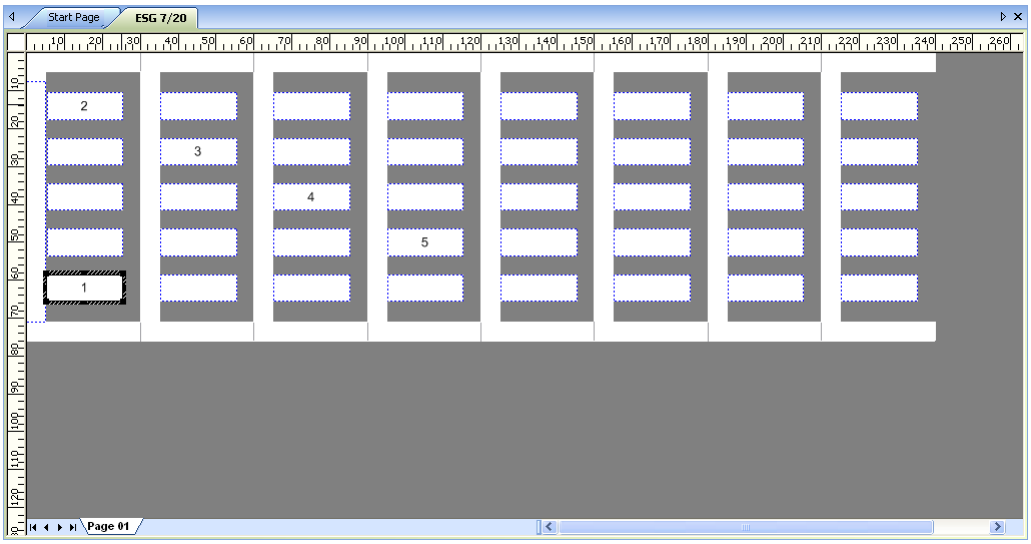
Block step
Here you define the value by which you want to increment the block, e.g. block = 0 and block step = 2. Example: 0, 2, 4, 6….

Duplicating each value
Here you specify how many times you want to duplicate each value.
If you enter the value 2 in the field, the following sequence is generated for numbering from 1 to 5: 1, 1, 2, 2, 3, 3, 4, 4, 5, 5.

Duplicating a sequence
Here you specify how many times the sequence (the value between start and end) will be needed.

Skip markers
Here you specify the number of captioned fields you want to skip.

Example: Start value = 1, end value = 5, skip = 3



Insert sequence
Click on the check box to activate or deactivate this function.

If the fields you are captioning already contain text, you can specify where you want the text to appear. Select the relevant radio button:

Before existing text
After existing text

If you do not activate this function, the entire content of the marker will be overwritten.

Project fields
Click on the check box to activate or deactivate this function.

This option enables you to automatically number project fields. The start value can be entered in the "Number" field (there is NO consecutive numbering if the "Number" field is deleted). You may also enter a "Prefix" or a "Suffix".

Formatted sequence
In the left field, enter the format for the block counter and, in the right field, enter the format for the numbering sequence defined by the start value and end value.

The following formatting options can be used for the block and the numbering sequence. The block format is only applied if the "Block" field contains an entry.

#.00	The numbers are formatted to two decimal places. For the number sequence 1 to 3, this produces the following formatted numbers: 1.00 then 2.00 then 3.00, etc.
$#.00	A constant appears before the number (the dollar sign in this example).
#,###.00	Formats the number sequence 1000 to 2000 as follows: 1,000.00 then 1,001.00 then 1,002.00, etc.
0%	Formats the number sequence 1 to 5 as 100%, 200%, .., 500% (percentage).

Preview
The first captioned field is displayed here.

Automatic recognition of field content

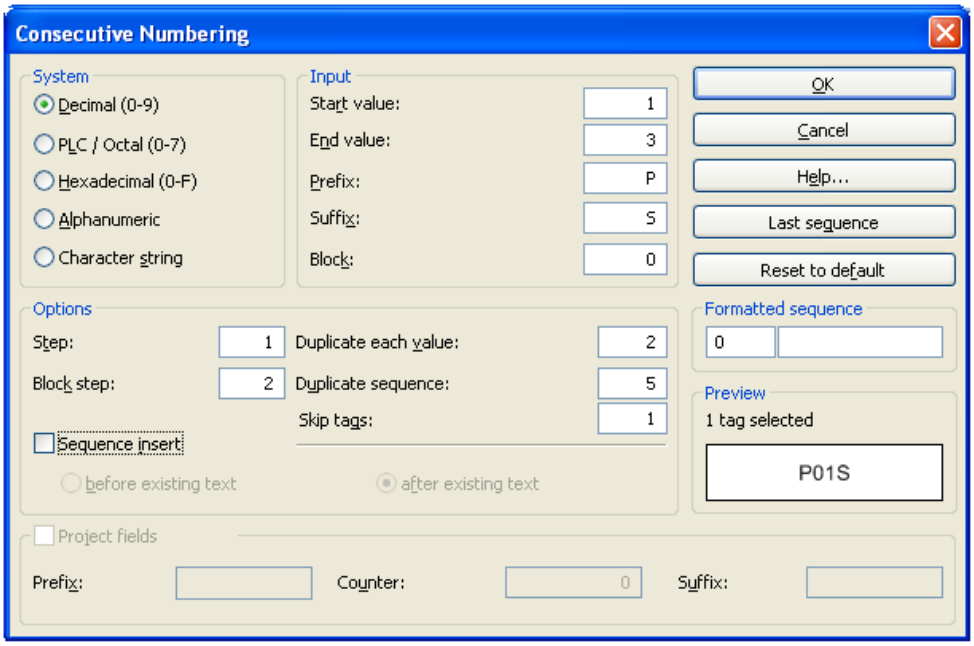
The Auto Fill function attempts to identify the text of the first selected field so it can put appropriate default settings in the "Consecutive Numbering" window.

For example, if you enter A4.0X in a text field, the system recognizes that A is the prefix, X is the suffix, the block counter is 4 and the start value is 0.

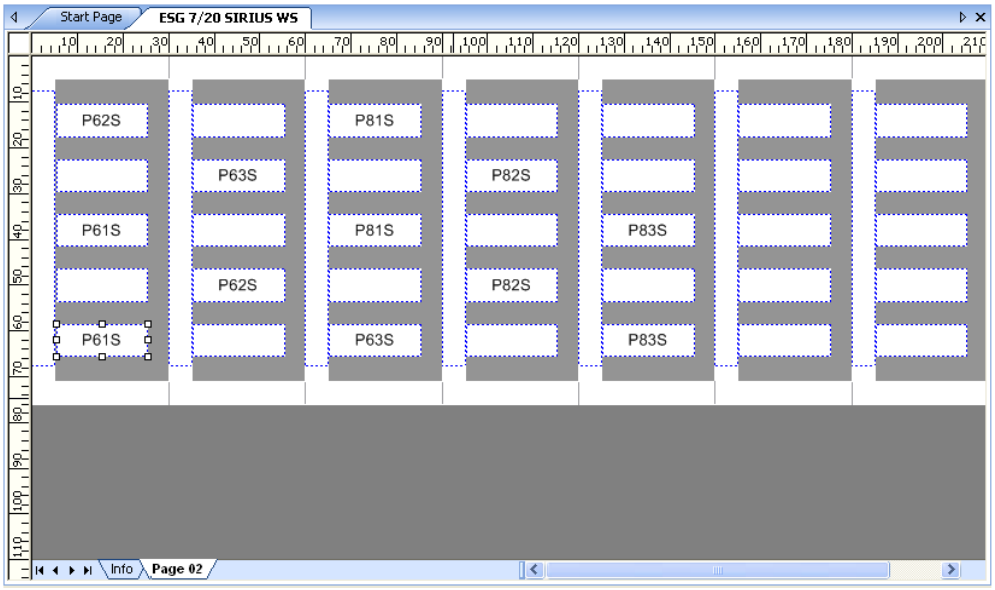
Example 1

We want to caption a MultiCard as follows:

The start value will be 1 and the end value will be 3. There will be a block in front of the value, counting from 0. Each number (block plus start value) will be preceded by a P and concluded by an S. One field will be skipped, i.e. there will be an empty field between the captioned fields. Each field will appear twice in succession. The values of the block entry will start at 0 and be incremented by 2, i.e. 0, 2, 4, 6.



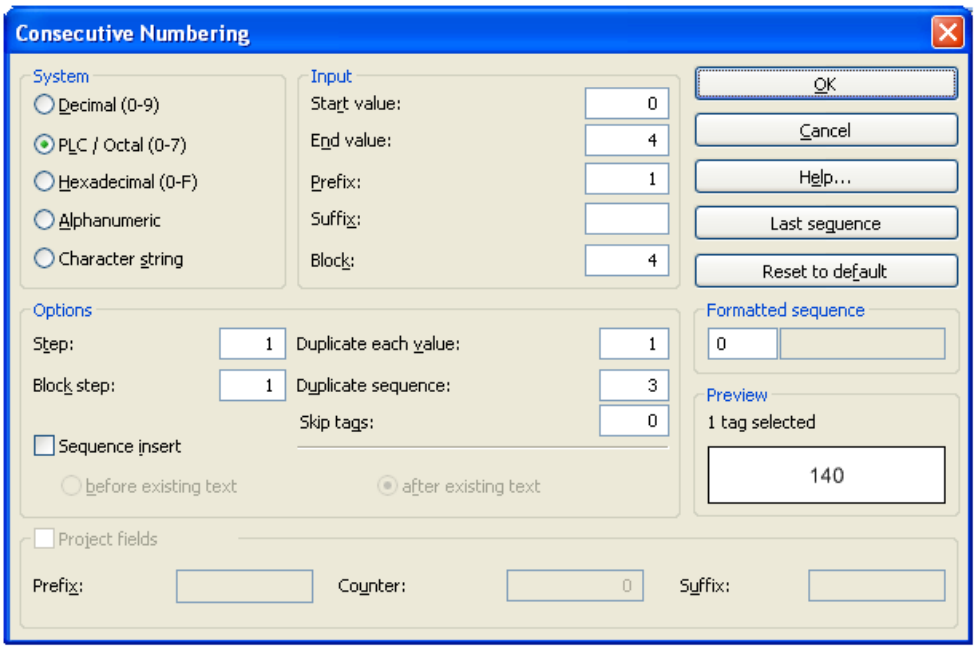
Result:



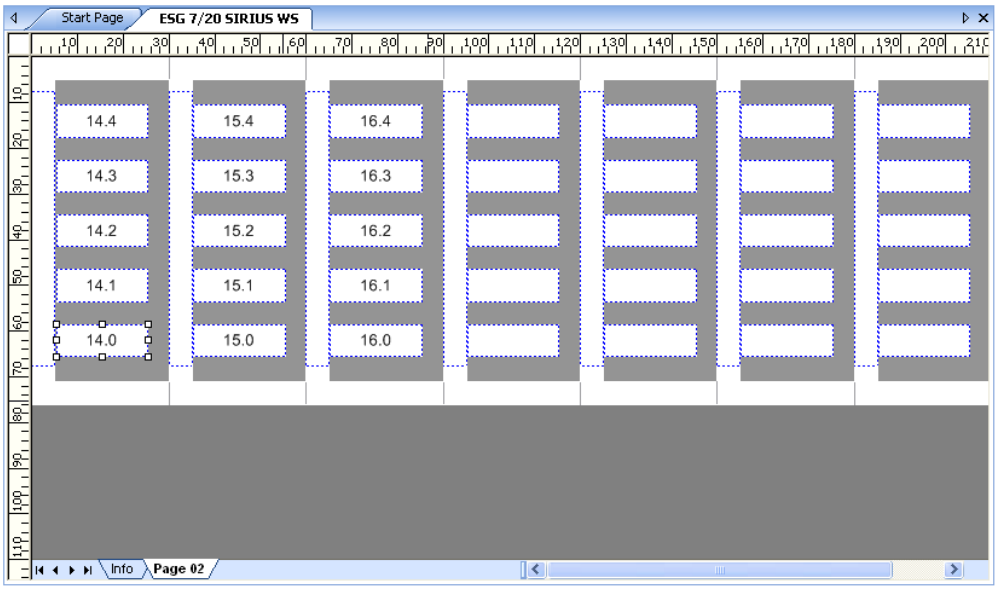
Example 2

PLC captioning format

The relays 4, 5 and 6 are to be captioned. Each of these relays has five inputs (= I), to be numbered from 0 to 4. Numbering is required to begin at I4.0 up to I4.4, then I5.0 to I5.4 and finally I6.0 to I6.4.



Result:



Incrementing and decrementing

Instead of consecutive numbering, numeric values can also be incremented and decremented via a function.

Two options are available

- Automatic recognition of the numeric value by selecting two text fields, see ("Automatic recognition of numeric value")
- Continuation of the numeric value with a default value (see "Continuing the numeric value with a default value")

There is pattern recognition which only considers the numeric values of one text. Example: After incrementing, "A-10x" becomes "A-11x"

Any negative sign for a number is interpreted as a text character and is not taken into consideration.

The "Increment Value" and "Decrement Value" functions always fill the next text field. If there are several text fields on one marker, they are filled one after the other.

The step of the function can be set via the options (see chapter "Basic settings").

Automatic recognition of the numeric value

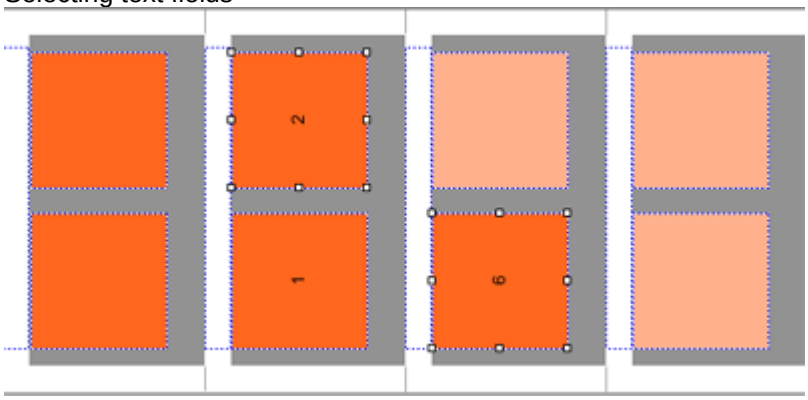
If you select two text fields with numbers, the difference between the figures in the two fields is used as the value.

Follow these steps:

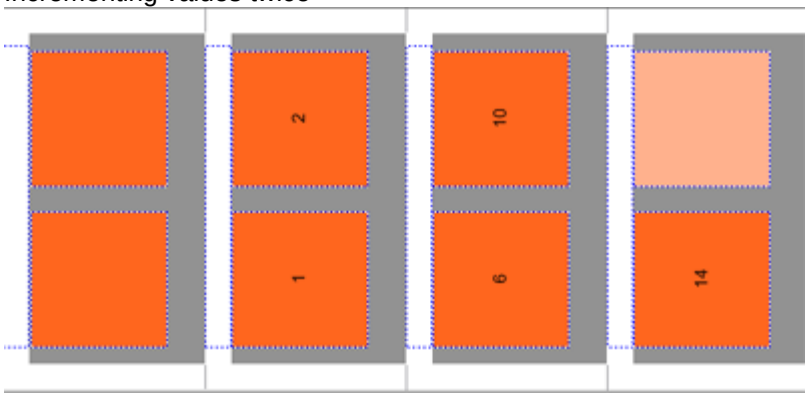
- Select at least two text fields with numeric values.
- Select **Insert > Increment Value** or **Insert > Decrement Value**

Example:

Selecting text fields



Incrementing values twice



Continuing the numeric value with a default value

If you only select **one** text field with a number, a preset value is used for incrementing and decrementing. The respective step can be set via the options dialog (see chapter "Basic settings").

Follow these steps:

- Select a text field with a numeric value.
- Select **Insert > Increment Value** or **Insert > Decrement Value.**

Color coding

The background and font colors of the numbers 0 to 9 can be set via the color coding option.

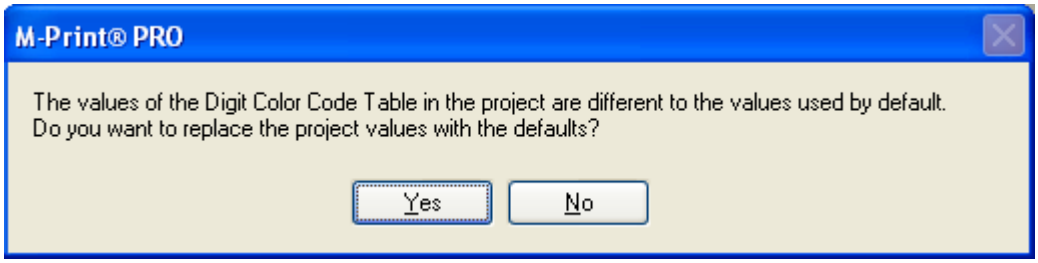
The settings for the background and font color are set via the options menu (see section "Color coding" in chapter "Options dialog").

Color coding can only be used in single-lined text!

The color coding is applied to complete elements (not to parts of the text).

The color coding settings are saved in the project file (e. g. *.mpc).
This enables you to create different files with different color codings.

If the color codings defined in the program differ from the ones defined in the project, the following message box appears:


M-Print® PRO
The values of the Digit Color Code Table in the project are different to the values used by default.
Do you want to replace the project values with the defaults?
Yes
No

- Click on **Yes** to accept the color values defined in the program.
- Click on **No** to keep the color values defined in the project.

Synchronizing content

Text elements can be linked to other text elements (so-called data sources).

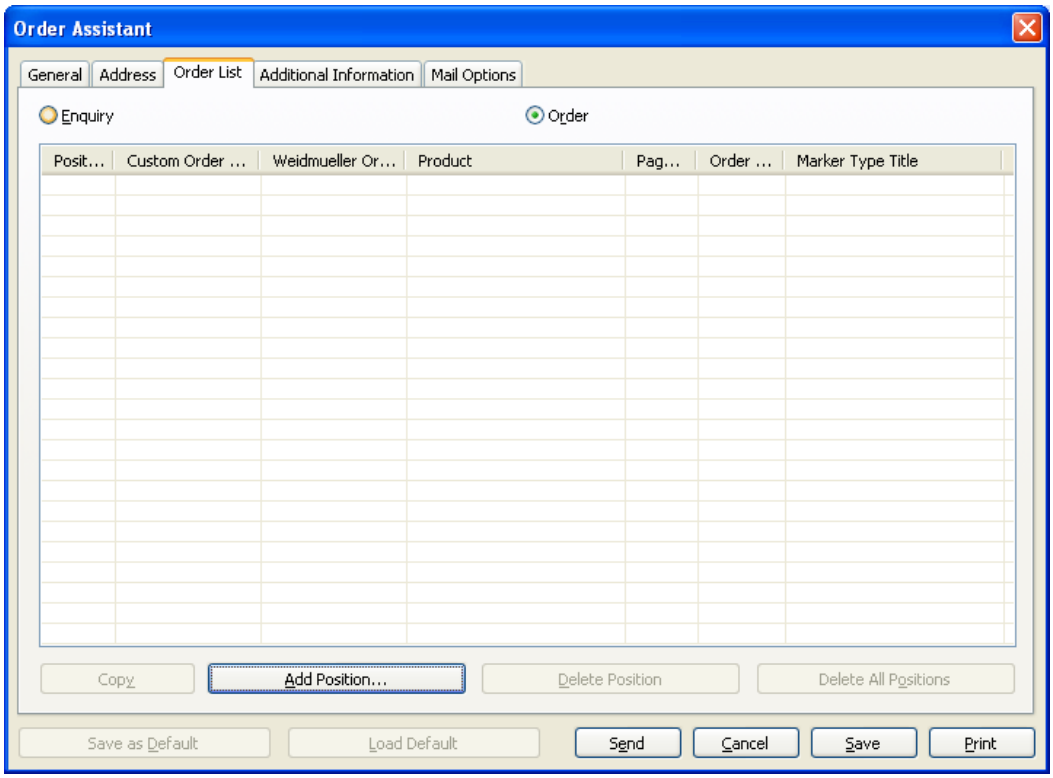
Follow these steps:

- Click on the text elements to which you want to assign a data source (e. g. TEXT FIELD 2).
- Open the "Properties" window (see chapter "Properties window")
- Enter the field name of the data source in the "Data Source" field (e. g. TEXT FIELD 1).
- Select **Edit > Synchronize Content**.

The content of TEXT FIELD 1 is transferred to TEXT FIELD 2.

Orders, Order Wizard

The Order Wizard enables you to order marker types from the currently open project by e-mail.



To open the Order Wizard, select **Tools** > **Order…** from the menu bar. .

- Select **Tools > Order...**.
- Make the settings on the tabs.

Save as Default
The settings of the active tab are saved as defaults.

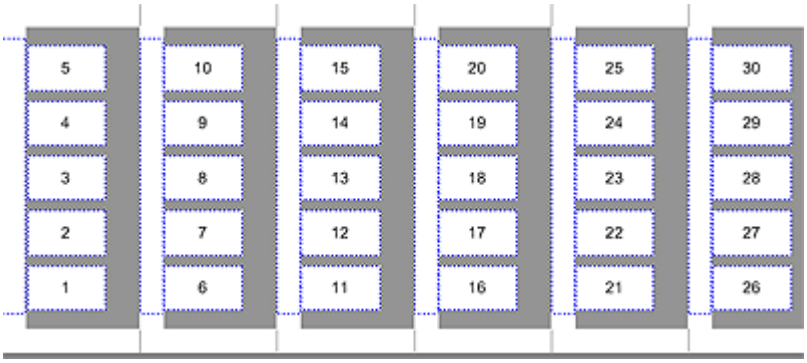
The delivery address stated in the order must be in the ordering party's country.

Filter functions

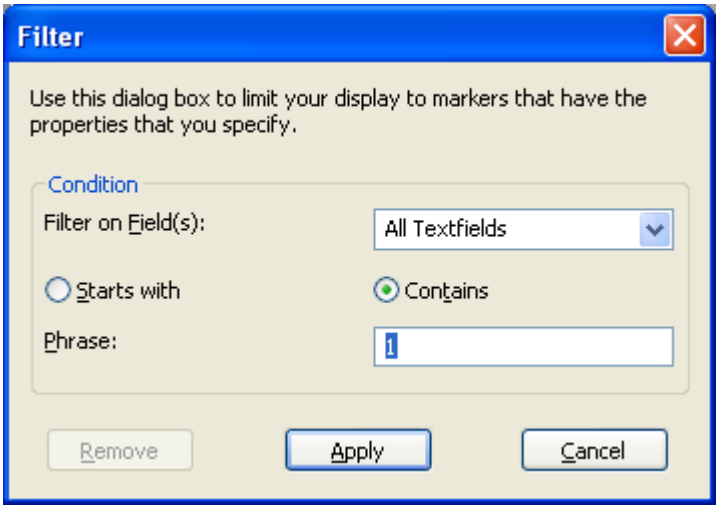
Filtering in fields

You can use the filter to view elements with special phrases.
Select **View** > **Filter** > **Filter...** to show the filter dialog.

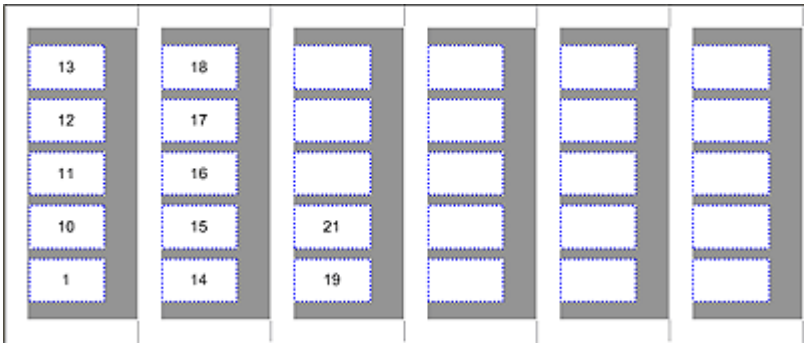
Example:
Before the filter:



Filter setting:



Result:



Overflow filter

You can show fields with text overflow via **View** > **Filter** > **Overflow filter.** These fields are shown with red triangles.

The overflow meter can be opened via **Format** > **Adjust font size...** (see chapter "General operation", section "Adjusting the font size").

The font size can be narrowed or shortened for these fields.

The overflow filter cannot be used for endless strips and endless shrink tubes. The option "Adjust marker length" can be used instead (see chapter "General operation", section "Adjust marker length").

Resetting the filter

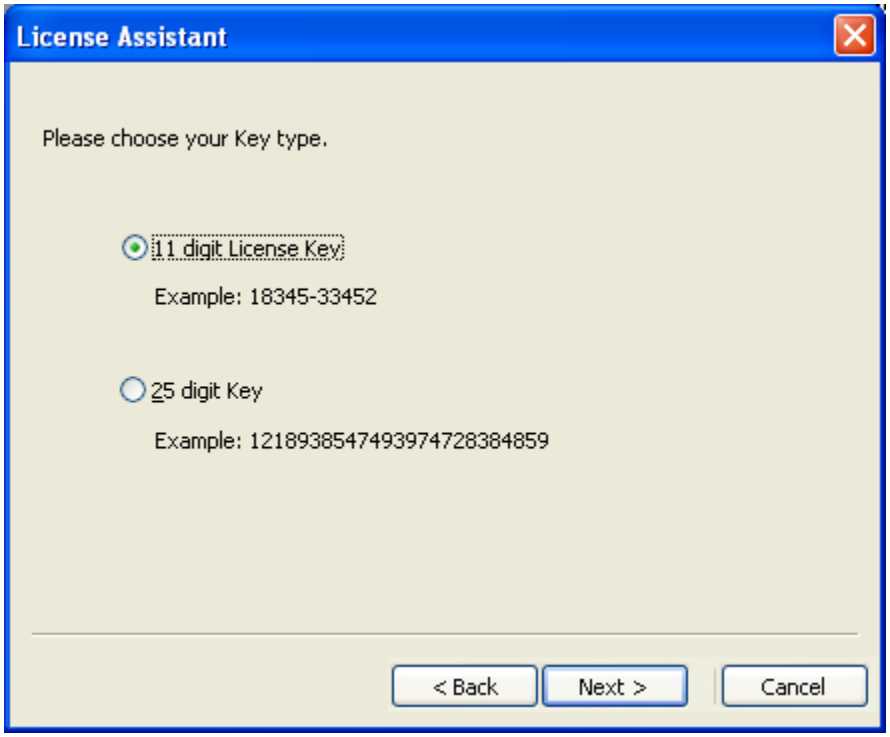
Filtered output (e.g. overflow filter) can be canceled via **View** > **Filter** > **Reset Filter**.

Licensing

With the licensed version you have the unrestricted rights for using the program according to the software key.

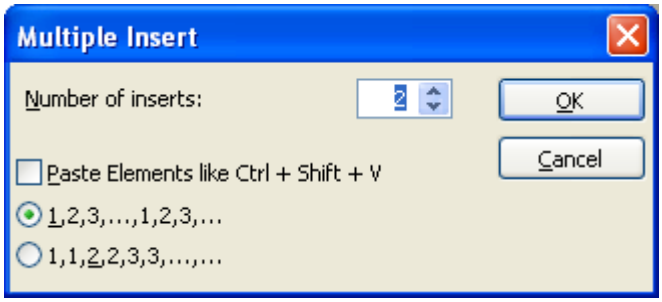
To license the program, select **Help** > **License Key...** from the menu bar.

First select the license key you have, then follow the further instructions.



Multiple insert

You can insert multiple text fields, barcodes and images from the clipboard.

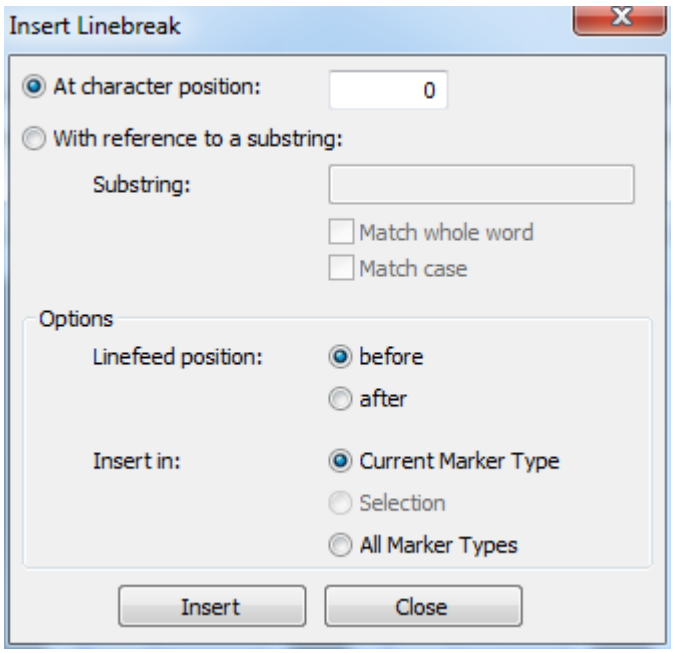


Select **Edit** > **Multiple Insert...** for multiple insertion. .

Inserting a line break

This function allows line breaks to be inserted subsequently in the content of text fields.

To do this, select **Edit** > **Insert Line Break...** from the menu bar.



Excel editing

The content of existing text fields can also be edited in Excel.
Select **Edit** > **Start Excel Editing.**

In Excel you can then edit the text content and all supported formats of the text fields.

Close Excel or select **Edit** > **Exit Excel Editing** in the program to transfer the content to the application.

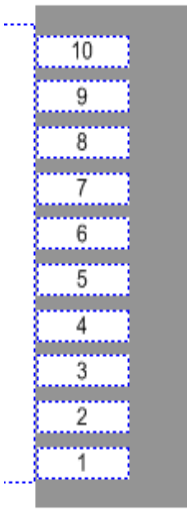
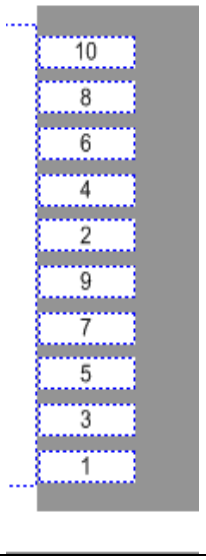
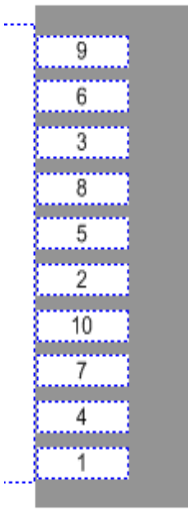
In order to make subsequently added fields (text, barcode) available for further editing on endless material, set the "Fill order" property in the properties of the field (see chapter "User interface", section "Size and position").

Multi-level terminals

You can use this function to resort selected data with a predefined step.
Select **Edit** > **Multi-level Terminal**.

If no markers are selected, sorting will be effected using all markers.

Example:

Default values:	**Multi-level terminal selection 2** = Two-tier terminal	**Multi-level terminal selection 3** = Three-way terminal
	Sorting: 1,3,5,7,9 then 2,4,6,8	Sorting: 1,4,7,10 then 2,5,8 then 3,6,9
		

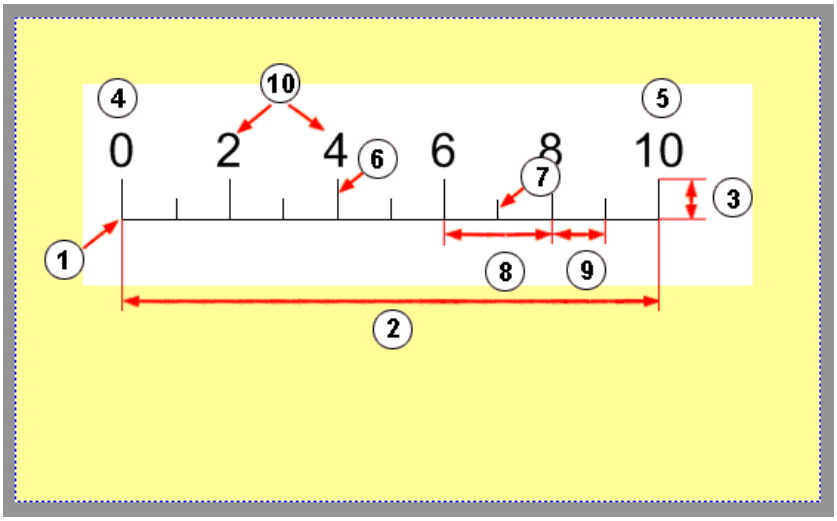
Scales

Scales and rounded scales can be inserted as new elements (see chapter "Inserting a scale".

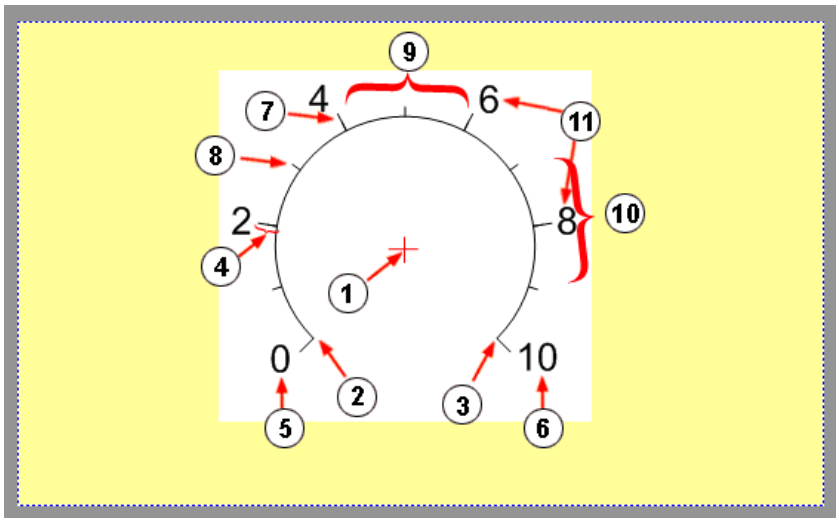
The start and end values determine the value range of the scale. The intervals of the tick marks (major / minor interval) always relate to the value range.

Scale properties

Scales are characterized by the following properties:



1 Scale zero-point (scale zero-point left, scale zero-point top)
2 Scale length
3 Scale height
The scale height corresponds to the height of the major tick marks.
4 Start value (start and end values determine the value range of the scale.)
5 End value
6 Major tick mark
7 Minor tick mark
8 Interval of the major tick mark (major interval)
9 Interval of the minor tick mark (minor interval)
10 Caption interval

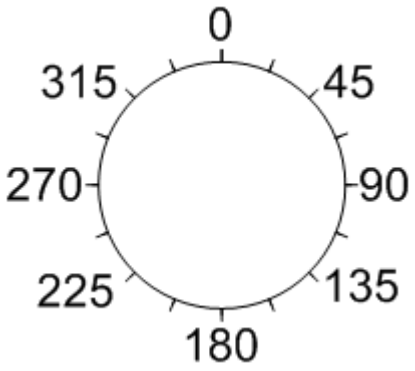


1 Scale zero-point (scale center left, scale center top)
2 Start angle (see also chapter "Rounded scale")
3 End angle
4 Scale height
The scale height corresponds to the height of the major tick marks.
5 Start value (start and end values determine the value range of the scale.)
6 End value
7 Major tick mark
8 Minor tick mark
9 Interval of the major tick mark (major interval)
10 Interval of the minor tick mark (minor interval)
11 Caption interval

A further explanation of the properties can be found in chapter "Inserting a scale".

Rounded Scale

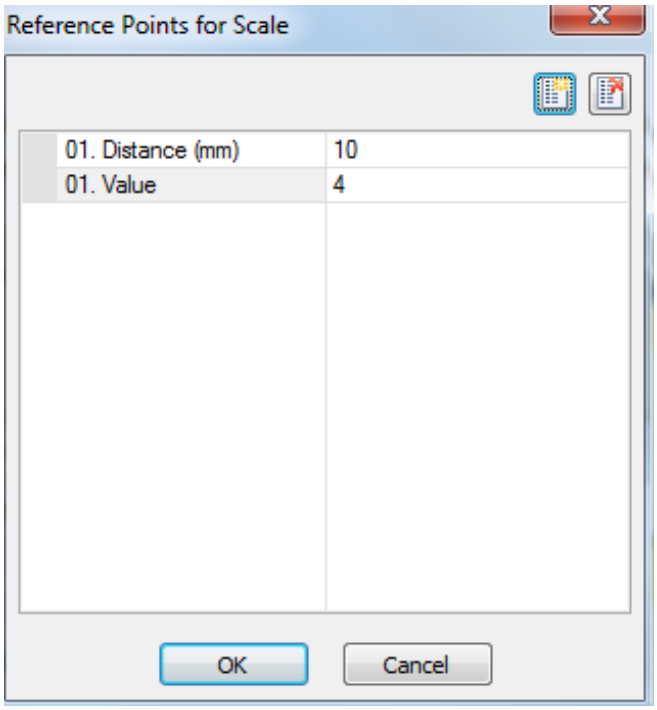
The base line of a rounded scale is a circular arc.
The scale is arranged clockwise along the circular arc. The zero-point is at the top.



Tangential captioning causes the scale captions to be arranged tangentially to the base line (see "Example 1" in chapter "Scale examples").

Reference Points

The value pattern of a scale can also be defined by reference points.
A reference point indicates the exact position of a value on the scale.
The value pattern is linear between the reference points.



Add reference point
Adds a new reference point in the dialog.

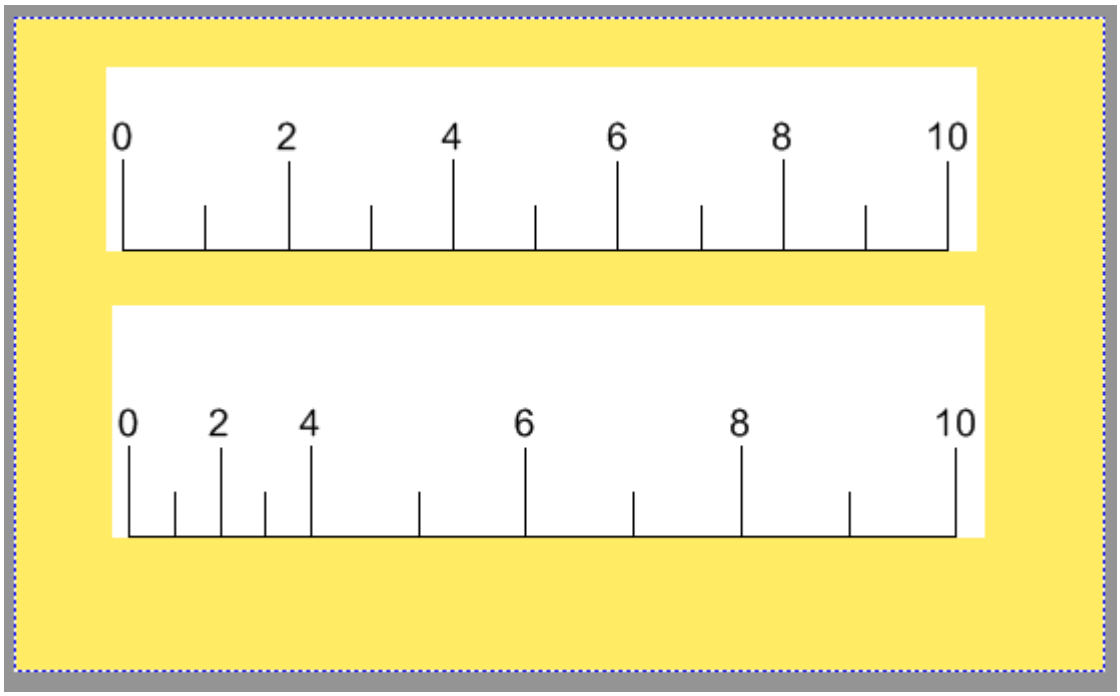
Delete reference point
Deletes the selected reference point.

Interval The interval of the reference point from the start of the scale.

Value Caption value of the reference point. Whether the caption value is displayed or not depends on the selected caption interval of the scale.

With a straight scale, the value should be in the visible range of the element. With a rounded scale, it should be between the start angle and the end angle.

Example:



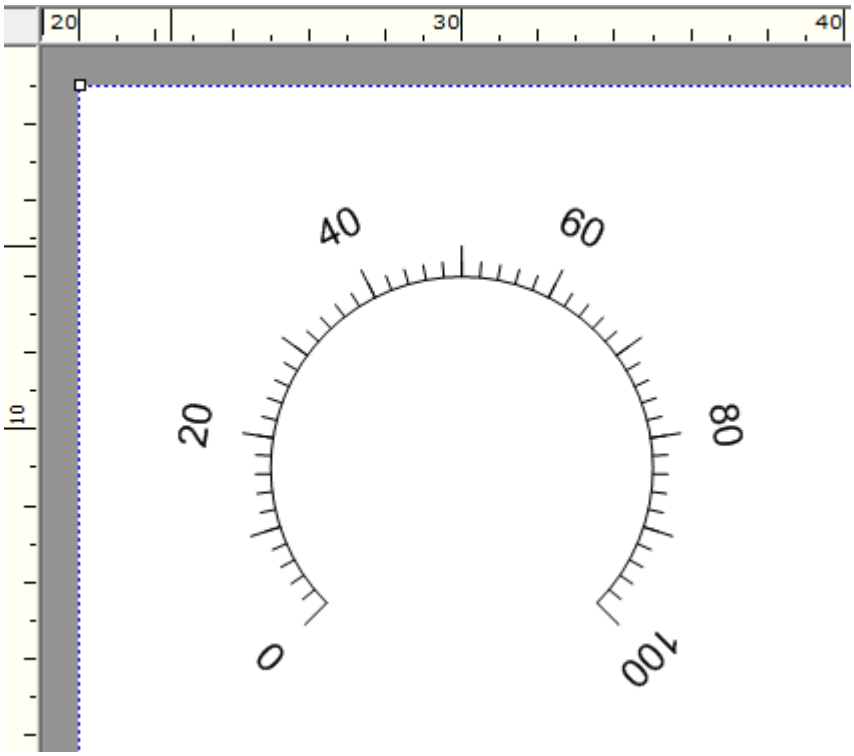
The upper scale does not contain reference points.

For the lower scale, a reference point with the value 4 has been defined at an interval of 10 mm.

At the selected caption interval of 2, the reference point is also captioned. The area before and after the reference point is also divided in a linear manner.

Scale examples

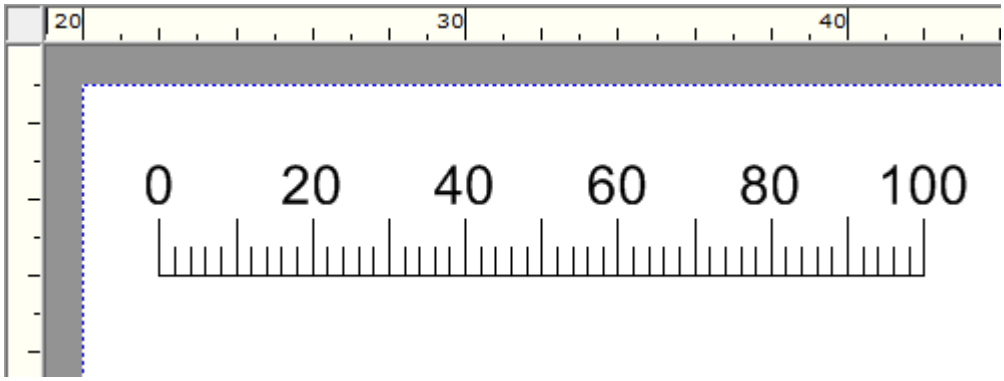
Example 1:



The illustration shows a round scale with the following properties:

Scale radius	5 mm
Start angle	225 (or -135)
End angle	135
Scale center left	10 mm
Scale center top	10 mm
Scale height	0.8 mm
Caption orientation	Tangential
Start value	0
End value	100
Value distribution	Linear
Major tick mark	10
Minor tick mark	2
Caption interval	20
Font size	3

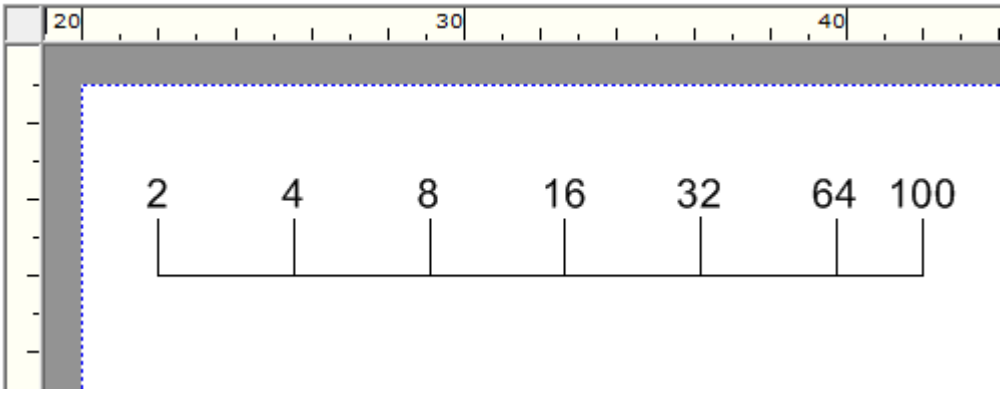
Example 2:



The illustration shows a scale with a linear value pattern and the following properties:

Scale length	20 mm
Scale zero-point left	2 mm
Scale zero-point top	5 mm
Scale height	1.5 mm
Start value	0
End value	100
Value distribution	Linear
Major tick mark	10
Minor tick mark	2
Caption interval	20
Font size	4

Example 3:



The illustration shows a scale with a logarithmic value pattern and the following properties:

Scale length	20 mm
Scale zero-point left	2 mm
Scale zero-point top	5 mm
Scale height	1.5 mm
Start value	2
End value	100
Value distribution	Logarithmic
Major tick mark	Automatic
Minor tick mark	Automatic
Caption interval	Automatic
Basis of the logarithmic scale	2
Font size	3

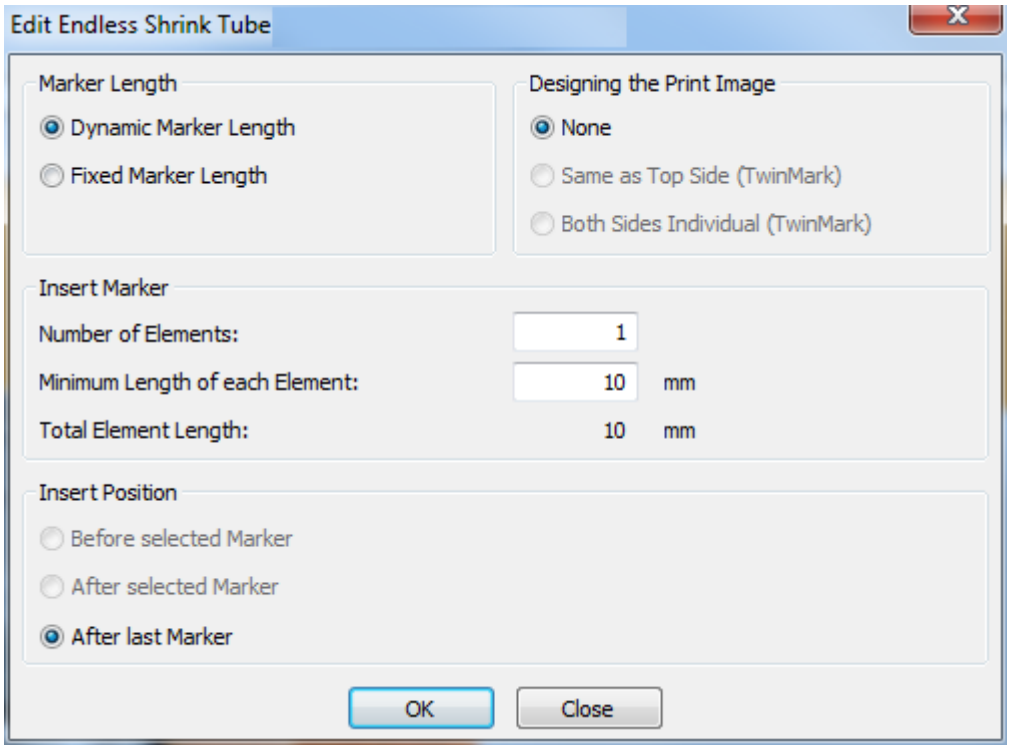
Endless strips

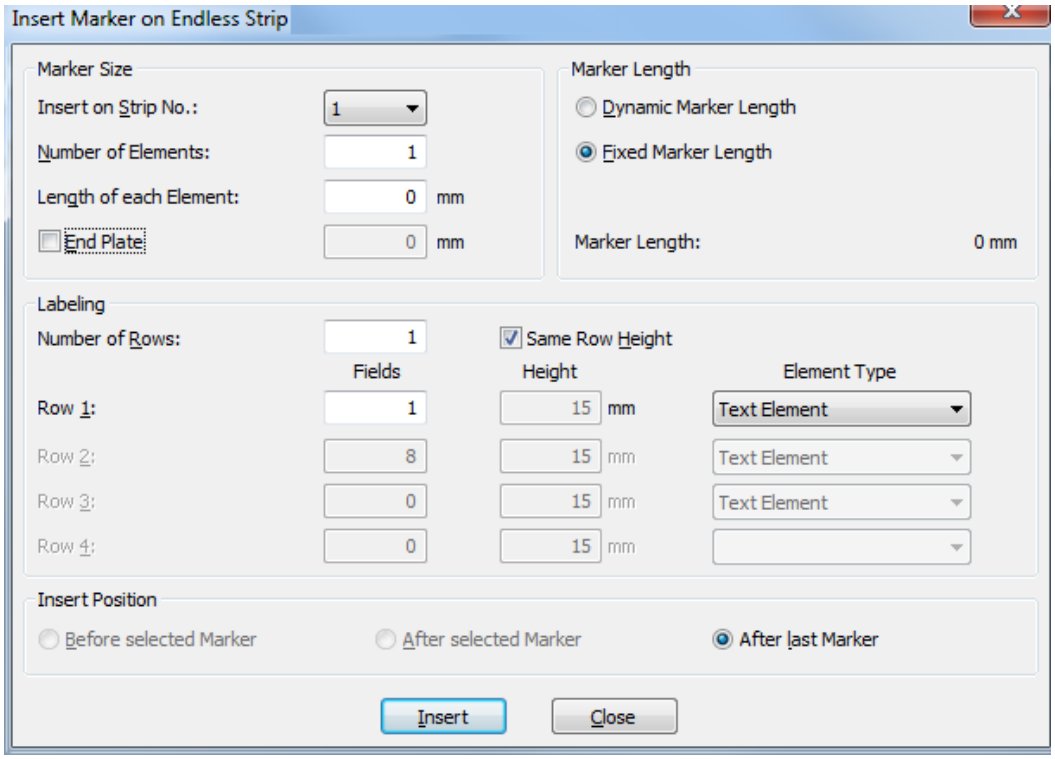
Endless strips are rolled goods, i.e. endless material that can be printed.

Compared to other marker types, it is the user who determines the appearance of the layout.

To insert an endless strip, select the corresponding marker from the product catalog.

A basic dialog or an extended dialog opens, depending the marker that is opened.




Insert Marker on Endless Strip
Marker Size
Insert on Strip No.:
1
Number of Elements:
1
Length of each Element:
0
mm
End Plate
0
mm
Marker Length
Dynamic Marker Length
Fixed Marker Length
Marker Length:
0 mm
Labeling
Number of Rows:
1
Same Row Height
Fields
Height
Element Type
Row 1:
1
15
mm
Text Element
Row 2:
8
15
mm
Text Element
Row 3:
0
15
mm
Text Element
Row 4:
0
15
mm
Insert Position
Before selected Marker
After selected Marker
After last Marker
Insert
Close

The following can be displayed, depending on the marker:

Insert on &Strip No.:
Number of the strip on which the marker is created (see chapter “General operation”, section “Endless material with multiple strips”).
This field is not available for endless labels with just one strip.

Number of elements / Length of each element
The number of elements multiplied by the length of each element determines the total element length.

End plate
Distance that is taken into account for an end plate to terminate one or more terminals.

Marker length
With a dynamic marker length, the marker is created using the selected values. After filling with text (keyboard, import, etc.), the marker length is dynamically adjusted to the field content (reduced/increased).

With a fixed marker length, the marker is created with the selected values.

The marker length is specified by the total length of the elements plus the end plate.

Note: Subsequent changes to the marker regarding this option are not possible. However, the marker length can be subsequently adjusted (see chapter "General operation", section "Adjust marker length").

Labelling of rear side
Selection for printing the rear side.

Note: Subsequent changes to the marker regarding this option are not possible.

Note: Some options can only be selected under certain conditions.

Number of rows
Number of rows for each marker.
Between 1 and 3 rows are usually used, as the height of the strip is limited. The total height of all the rows should not be greater than the height of the strip.

Same row height
The row heights are calculated automatically.

Row…
Row on the marker.

Fields
Number of fields (e.g. text fields) which should be displayed in the row.

Height
The height of the row.
The total height of all the rows should not be greater than the height of the strip.

Element type
The following can be selected:

Text element:	The row consists of text elements that can be captioned
Connector	Graphic connector object

Insert Position
New markers can be added at the end of the strip or be inserted before or after the current position.

Paste
Inserts the selected settings as a marker. Further markers can be inserted as long as the dialog is not closed.

Connector

There are the following graphic connector elements, which can be adjusted via the "Properties" window:

Type: Start

Type: Junction

Type: T-Junction

Type: End

Endless material with multiple text fields

In order to make subsequently added fields (text, barcode) available for further editing on endless material, set the "Fill order" property in the properties of the field (see chapter "User interface", section "Behavior").

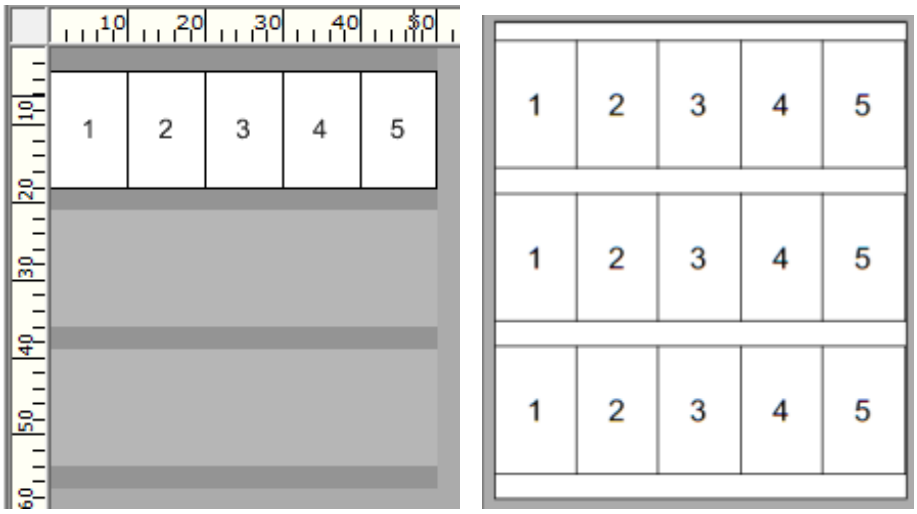
Endless material with multiple strips

When it comes to endless material with multiple strips, the elements can be created and inscribed on each strip regardless of the other strips.

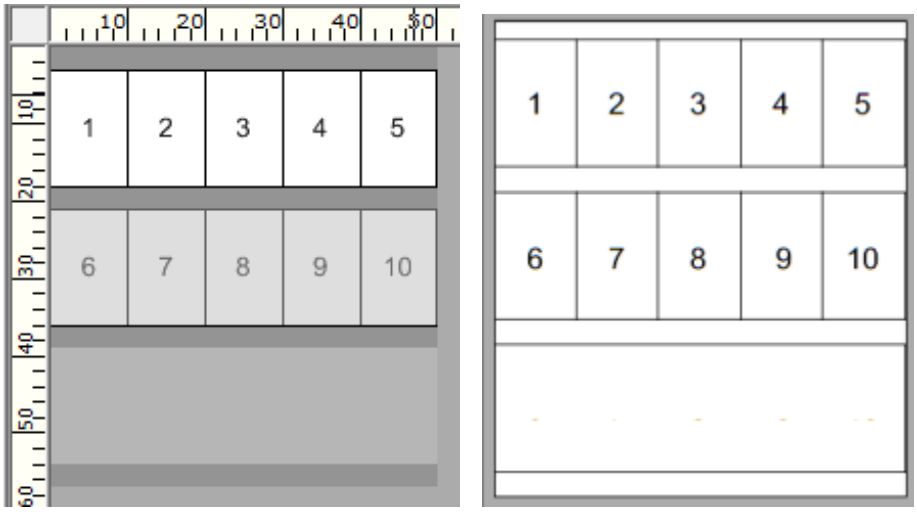
Two options are available:

- Only the first strip is inscribed
- More than one strip inscribed

Only the first strip is inscribed
When only the first strip is inscribed, all other strips are printed with its content – as a copy.



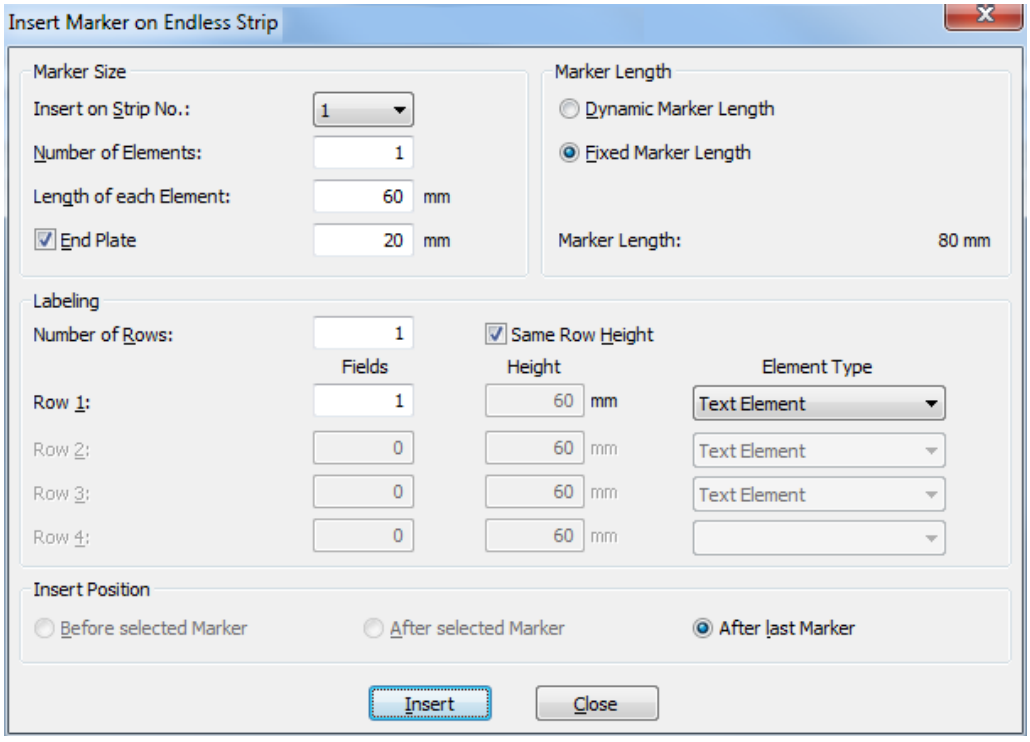
More than one strip inscribed
When more than one strip is inscribed, all strips are printed as shown on the desktop.



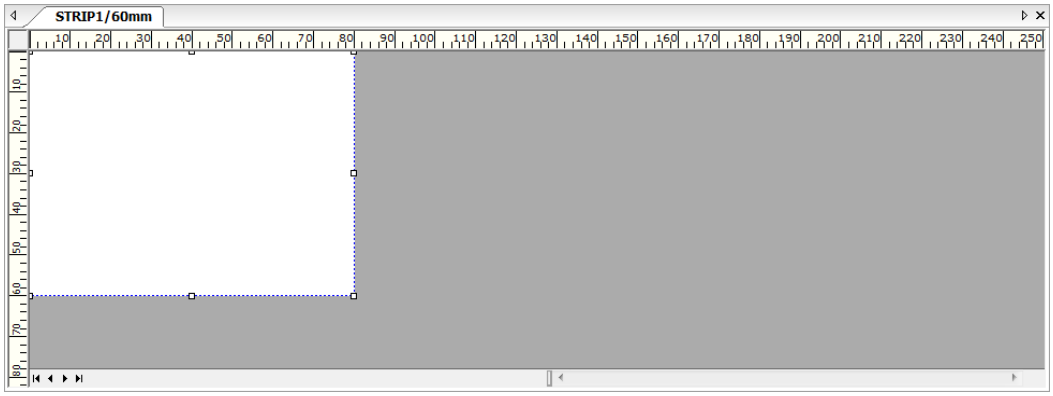
Examples of endless strips

Three different marker settings are added to an endless strip in the example.

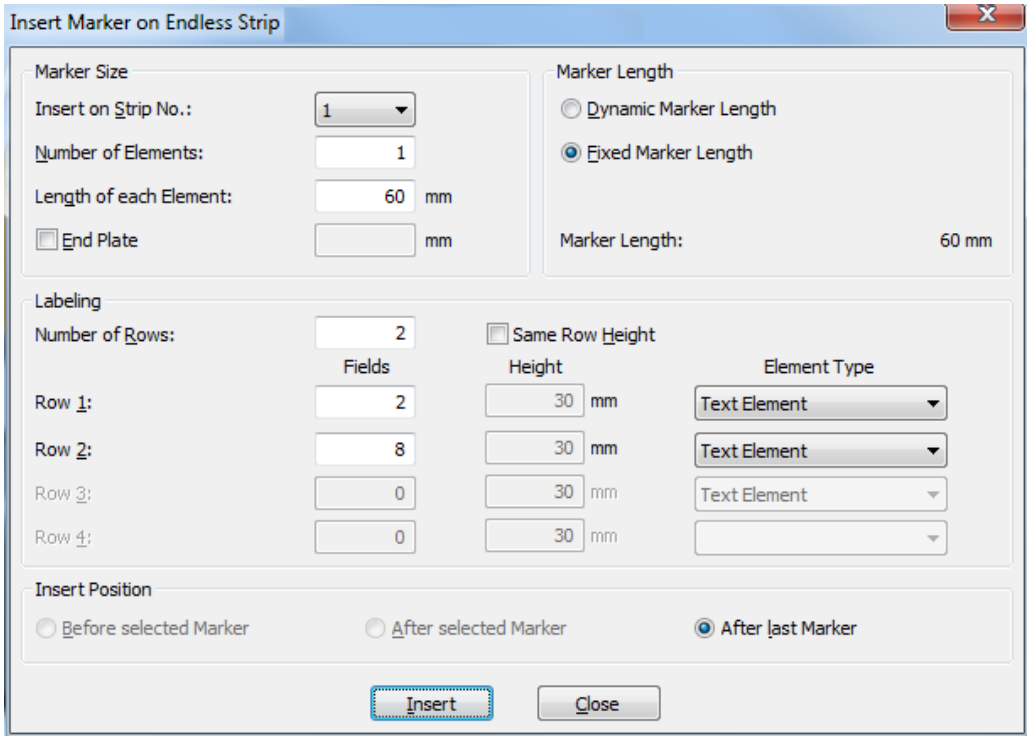
Setting 1:



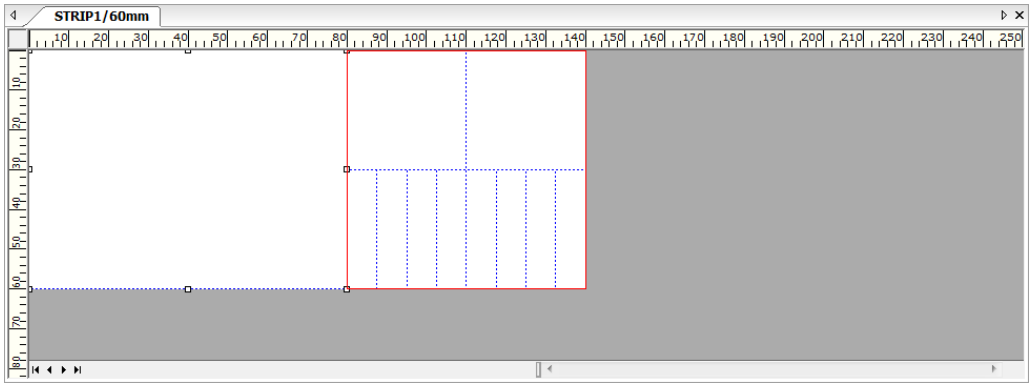
Result 1:



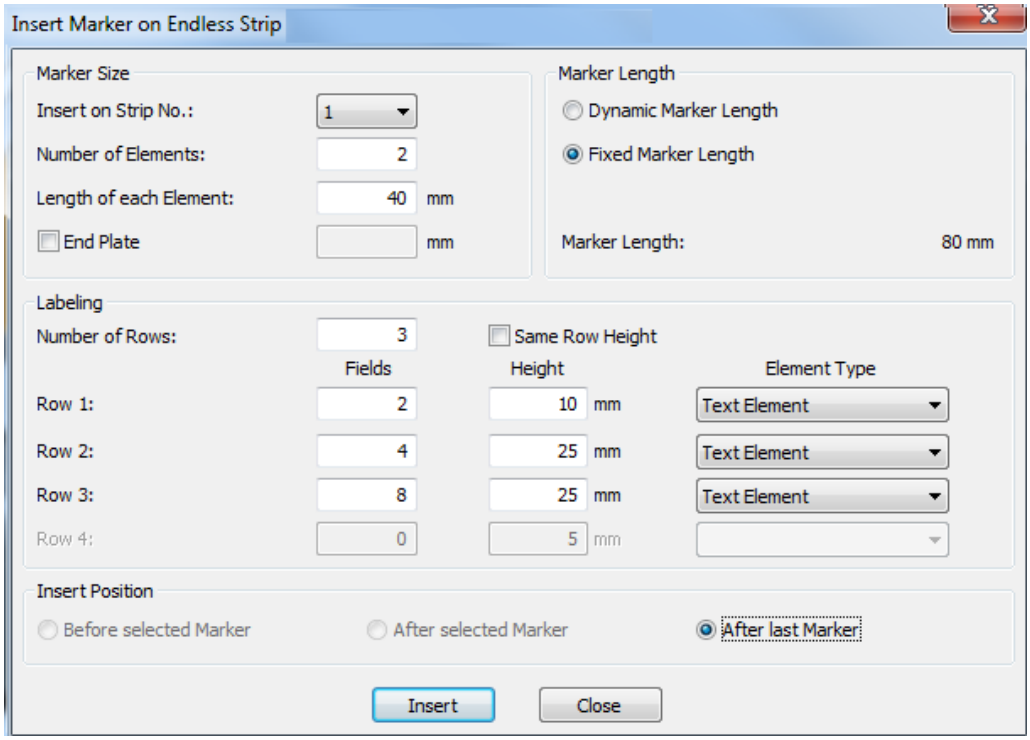
Setting 2:



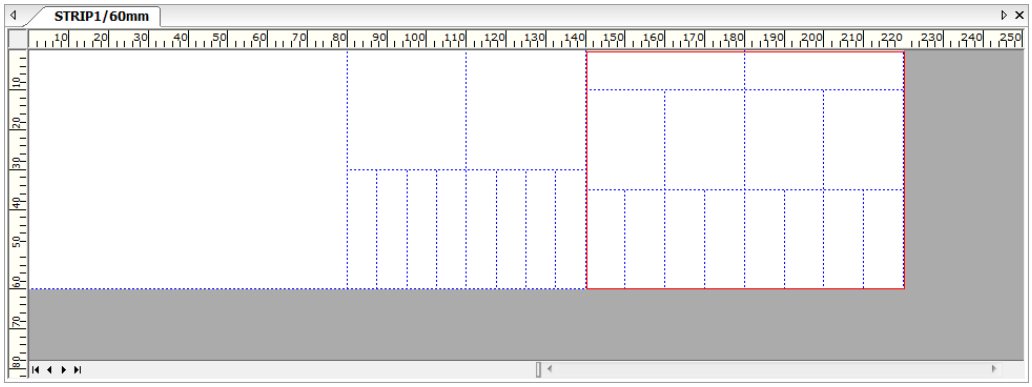
Result 2:



Setting 3:



Result 3:



Document protection

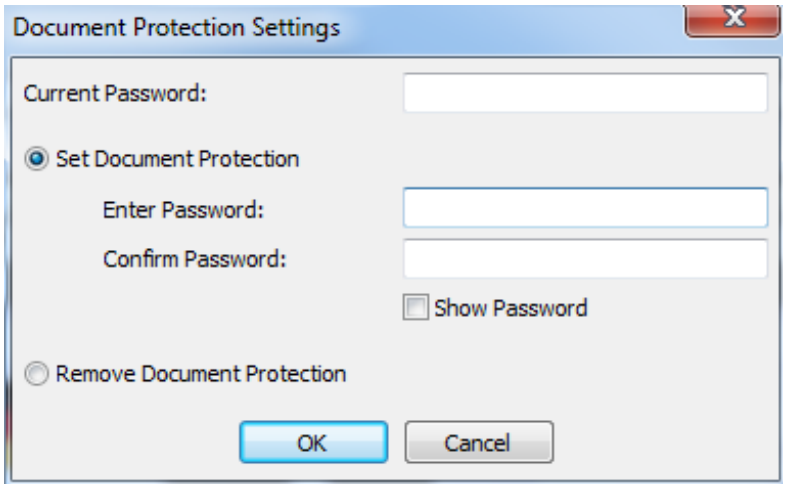
The document protection feature lets you protect the layout of your project file against changes. Consequently only the content can be changed – like with a form.

Note the following document protection properties:

- Applies to all elements for which the "Locked" property has been set (see chapter "User interface", section "Behavior").
- Protects the "Locked", "Printable" and "Read only" properties, among other things.
- Prevents the deletion, moving and addition of elements.

Document protection settings

The following settings, among others, can be made by selecting "**Tools -> Document Protection Settings…**" from the menu bar:



Current Password:
The current password has to be entered in order to change the password or remove document protection.

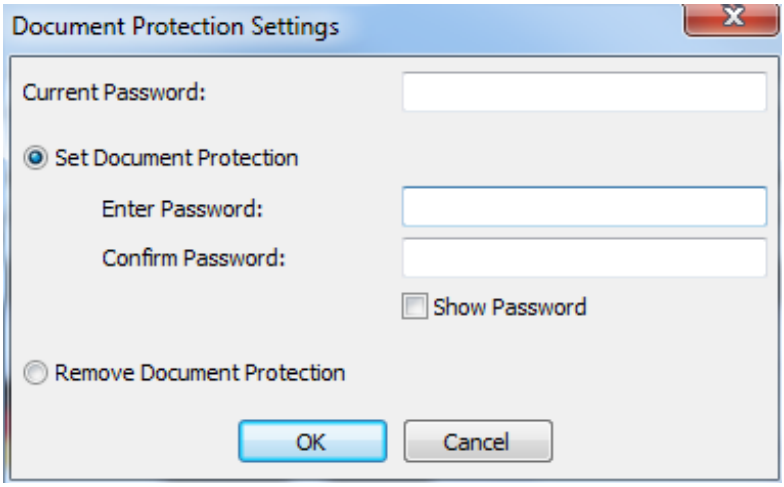
Set Document Protection
You can define a new password for document protection here.
The previous password is overwritten.

Remove Document Protection
You can remove existing document protection here. The current password has to be entered.

Enabling document protection

Follow these steps to enable document protection:

- Create a project file and set the "Locked" property to "Yes" for all fields that need to be protected (see chapter "User interface", section "Behavior").
- Select **Tools -> Document Protection Settings…** from the menu bar or click on the icon.
- If no password has been assigned yet, the document protection settings dialog opens.



- Type in a new password and click on **OK**.

Document protection has now been enabled.

That document protection has been enabled is shown

- on the toolbar by the Enabled icon ( )
- and after the version number (see chapter "User interface", section "Introduction".

Disabling document protection

Follow these steps to disable document protection:

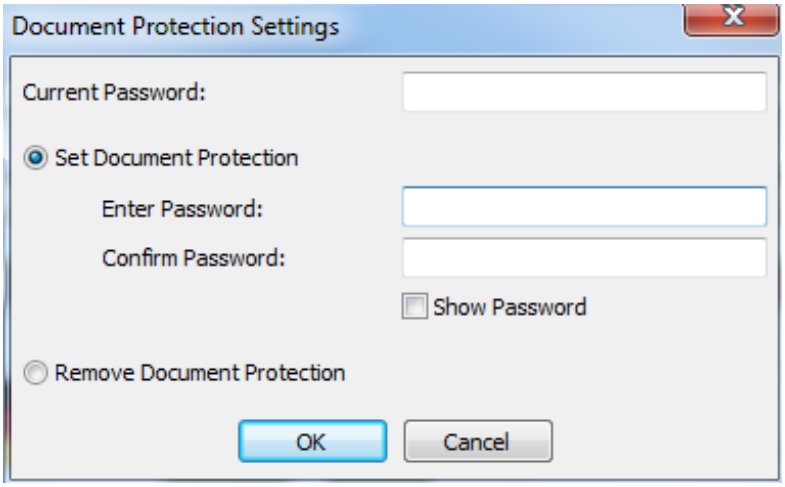
- Open a protected project file.
- Select **Tools -> Document Protection Settings…** from the menu bar or click on the icon.
- A dialog opens, requesting the password.

When the password has been entered, document protection is disabled until the project file is closed again.

Removing document protection

Follow these steps to remove document protection:

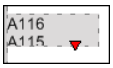
- Open a protected project file.
- Select **Tools -> Document Protection Settings…** from the menu bar or click on the icon.
- The document protection settings dialog opens.



- Type in the current password, select "Remove Document Protection" and click on **OK**.

Document protection has now been disabled.

Adjusting the font size

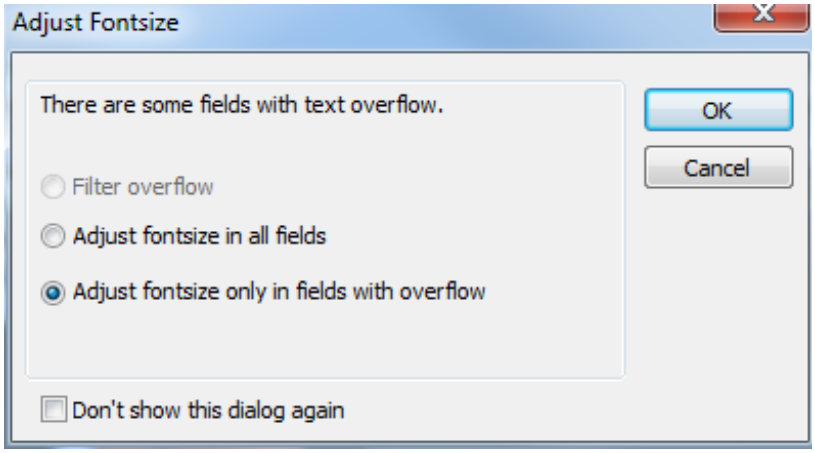


If a text field shows a red triangle when text has been inserted, the text does not fit into the field. Not all of the text is displayed or printed.

The font size of text fields with overflow can be adjusted automatically.

The overflow meter can be opened via **Format** > **Adjust font size...** or automatically via the program after an import or before printing.

The dialog only appears if there are text fields with overflow



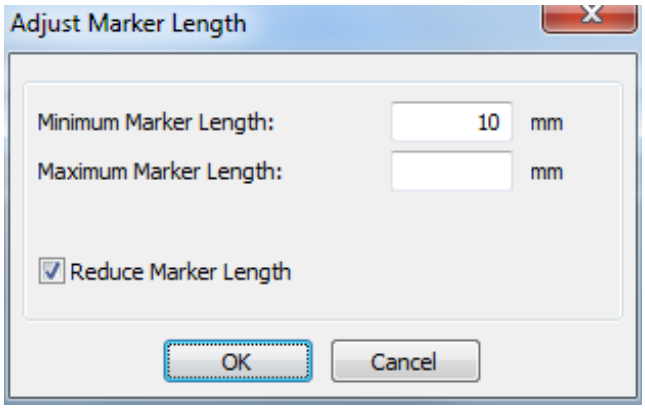
Using the overflow filter
Only text fields with overflow are displayed (see chapter “General operation”, section “Overflow filter” and section “Resetting the filter”).

The overflow filter cannot be used for endless strips and endless shrink tubes.

Adjust marker length

The dialog for adjusting the marker length can be opened via **Format** > **Adjust marker length...**

This option makes it possible
- to enlarge selected markers dynamically so that the content is shown in one line
- and to reduce selected markers dynamically so that the field width is used optimally.



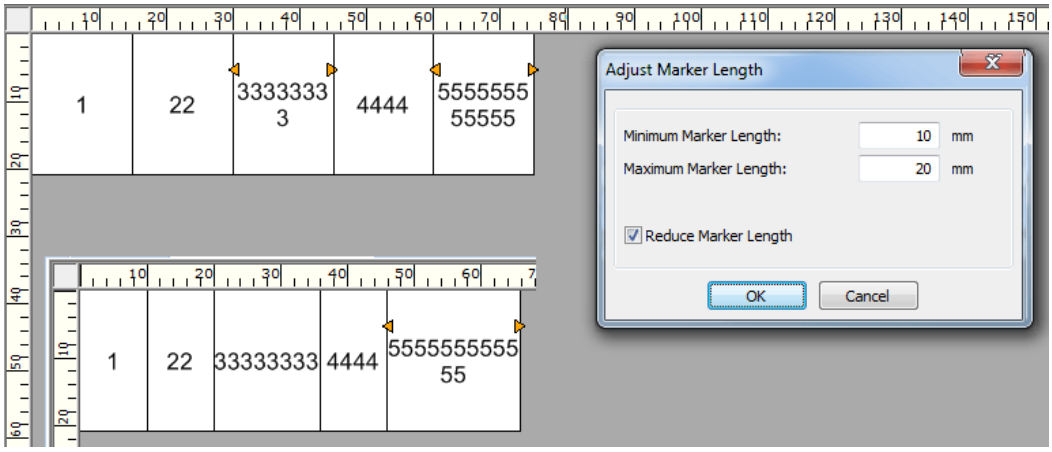
Minimum marker length
The minimum length to which the marker is increased (even if the text field contains fewer characters).
Fields that are too wide are reduced in conjunction with “Reduce marker width”.
If the field content is “0” or empty, it is ignored

Maximum marker length
The maximum length to which the marker is increased
If the field content is “0” or empty, it is ignored

Reduce marker length
Automatically reduces markers that are longer than their (single-line) text. Afterward, the text fills the field completely. However the marker is not reduced below the minimum marker length.

The marker length can only be adjusted for endless strips and endless shrink tubes.

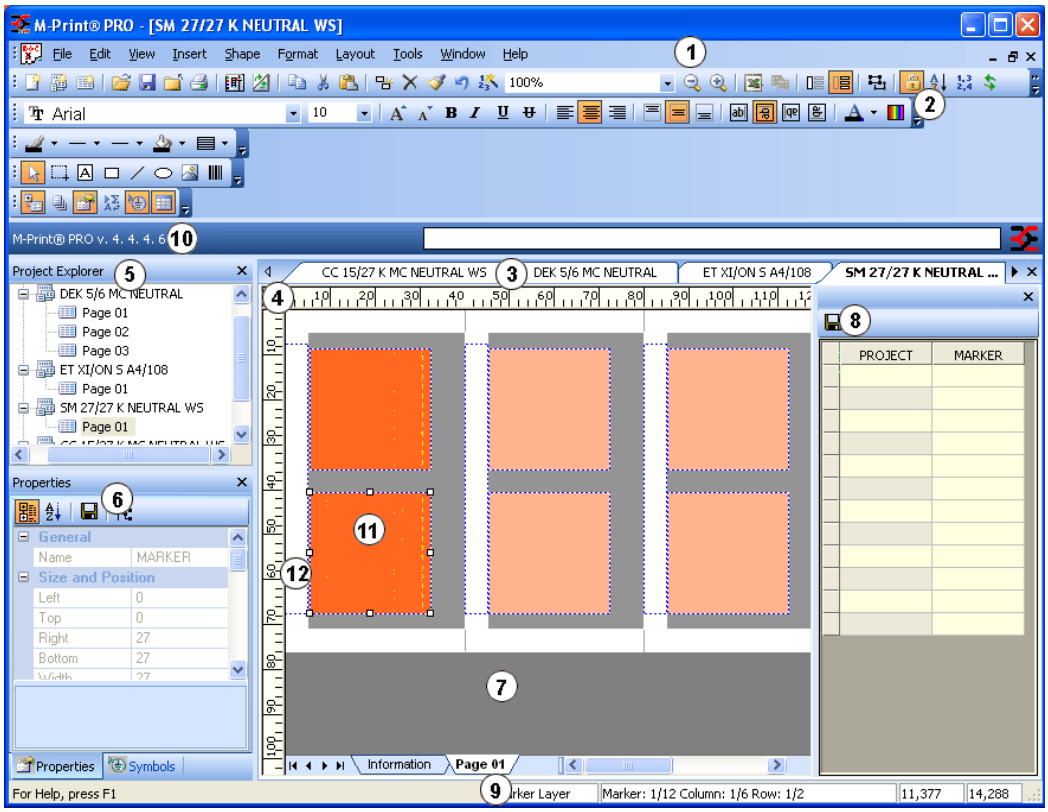
Example:


1
22
3333333
3
4444
5555555
55555
1
22
33333333
4444
5555555555
55
Adjust Marker Length
Minimum Marker Length:
10
mm
Maximum Marker Length:
20
mm
Reduce Marker Length
OK
Cancel

User interface

Introduction

The user interface can consist of different elements, depending on the configuration.



1 **Menu bar**

The menu bar enables you to use the most important program functions.
Menu items can be active or inactive.

2 **Toolbars**

You can use the toolbar icons to execute important commands.
The toolbars are movable and dockable.

3 **Tabs**

Tabs are arranged below the toolbars.
If you click on a tab, the associated marker type moves to the foreground.

4 **Ruler**

There are rulers along the top and the left of the workspace. You can use the rulers to measure distances and spacing.

5 **Project Explorer**

The default position of the Project Explorer is on the left of the user interface.
The Project Explorer has a hierarchical structure and is used for managing projects (see section "Project Explorer").

6 **Properties window**
In the "Properties" window you can display and change the properties of various elements, such as text fields, images or barcodes (see chapter "Properties window").

7 **Workspace**
The workspace occupies the right of the user interface.
Here you can view and edit the currently selected marker type.

8 **Data grid**
The data grid is used to show and edit the content of the marker elements "text field" and "barcode" in tabular form.
(See chapter "Data grid").

9 **Status bar**
The status bar runs along the bottom of the user interface.
The following items are shown:

- Active layer (e.g. marker layer, free layer, etc.)
- Number of available markers, columns, lines of the active layer
- Position of the cursor along the X and Y axes and the unit of length (e.g. mm)
- Status of the CAP, NUM and SCRL functions
  Active functions are shown in black.

10 **Version number**
Display of the current program version.

11 **Marker areas**
Printable areas on the marker types.
By default, each marker area (short: marker) has a document-individual text element (see section "Field").

The marker areas are arranged on the marker layer.

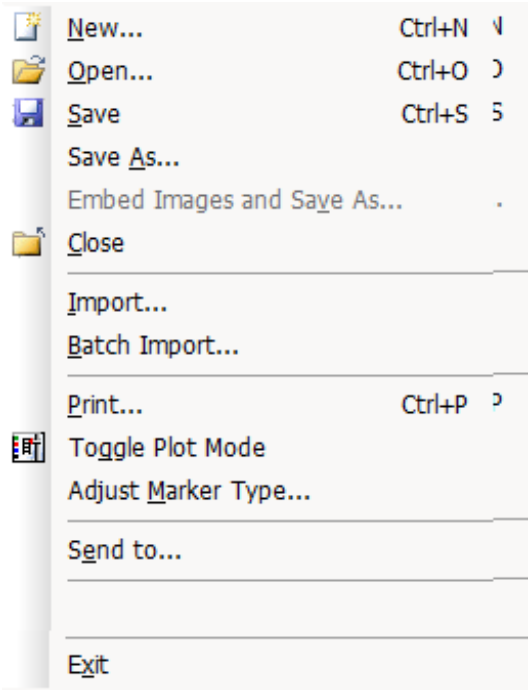
12 **Project layer**
By default, the project layer has a document-individual text element, the so-called project marker.

Elements
Text fields, shapes (lines, rectangles, ellipses, scales), images and barcodes are all referred to as "elements".

Menu bar

This section describes the most important functions of the individual menus.

File menu



New
You can use this menu item to create a new file.

Open
Opens an existing file. The specification of a file name can be set via the options dialog (see chapter "Options dialog", section "Environment", section "General").

Save
Saves a file you have been working on.

Save As…
Lets you specify a new name when you save a file.

Embed Images and Save As
Embed images available in the program file and save under the file name.

Close
Closes a file.

Import…
You can use this menu item to import data from other formats.

Batch import
You can import external data via a script.

Print…
This menu item displays the dialog box for printing marker types.

Toggle Plot Mode
Switches to plot mode (see section "Plot mode").

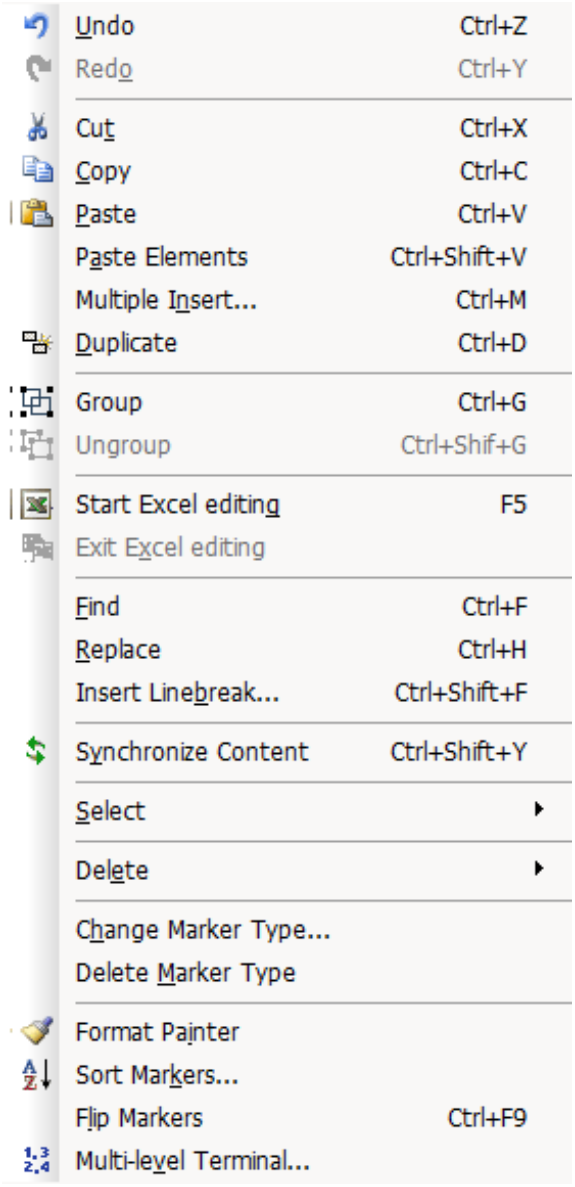
Adjust Marker Type…
Adjusts the marker type (see section "Adjusting the printer offset").

Send to…
This menu item enables you to send your current project by e-mail.

Recent Files
This part of the menu lists recently opened files.

Exit
You can use this menu item to exit M-Print PRO.

Edit menu



Undo
This undoes the last editing step.

Redo
Redoes the steps that have been undone. Redoing relates to the basic functions and cannot be undone again

Cut
This menu item cuts one or several selected elements.

Copy
This menu item copies one or several selected elements.

Paste

This menu item pastes the clipboard content into a selected field.

Paste Elements
This menu item pastes a copied element into a selected field (e.g. a symbol).

Multiple insert
Inserts a copied element multiple times (see section "Multiple insert").

Duplicate
This menu item duplicates a selected element and places it (slightly offset) on top of the original element.

Grouping
Groups the selected elements (or groups) as a new group (see section "Grouping").

Ungroup
Ungroups the selected group.

Start Excel Editing
This menu item starts Excel editing (see section "Excel editing").

Exit Excel editing
This menu item ends Excel editing.

Find
Calls the search dialog. The current marker is checked for the entered search criterion.
It is possible to search in several rows.

Replace
Opens the search/replace dialog.
The current marker is checked for the entered search criterion.
It is possible to search and replace in several rows.

Inserting a line break
Opens a dialog to insert line breaks (see section "Inserting a line break").

Synchronize content
Synchronizes all fields for which data sources exist (see section "Synchronizing content").

Select
This menu item gives you several options for selecting elements (e.g. All fields (current page) or All fields (all pages)).

Delete
This menu item gives you several options for deleting elements (e.g. text field, rectangle, pages, empty markers, duplicate markers, etc.).

Change Marker Type…
This menu item enables you to change the marker type.
The content is transferred (if possible).

Delete Marker Type
This menu item enables you to delete the marker type.

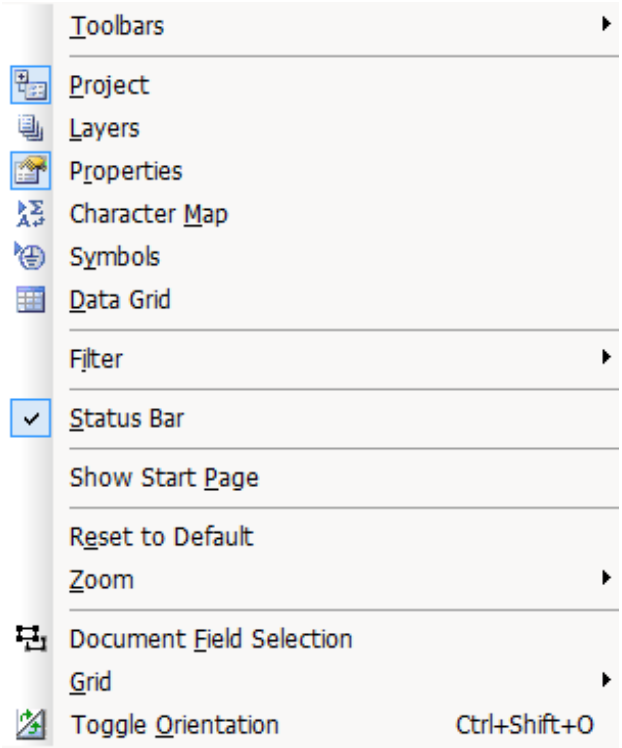
Format Painter
You can use this function to copy the formatting, font, color, etc. to another element.

Sort markers
Opens the sort dialog. Here, you can sort the markers by various sort criteria.

Flip Markers
This function enables you to flip the order of the selected markers.

Multi-level Terminal...
Opens the multi-level terminal dialog.
You can use this function to resort selected data with a predefined step (see chapter "Multi-level terminals").

View menu



Toolbars
This menu item contains the following submenu items.

Standard
The "Standard" toolbar cannot be disabled.

Layout
To position elements (e.g. rotating, alignment)

Format Text
Contains text formatting functions like font and font size, color, etc.

Format Element
Contains the functions for formatting text elements such as

line thickness or fill color.

Element
Selection box for inserting all available elements, such as text fields, images and barcodes.

Docking Bars View
This opens a window in which you can show or hide the various editing windows such as "Properties" and "Layers" and the Project Explorer.

Header Line
This option shows/hides the title bar showing the application name and version.

Customize...
This shows a dialog box in which you can change the way the toolbar icons are displayed on screen, or even create new toolbars.

Project
Showing or hiding the Project Explorer.

Layers
Showing or hiding the "Layers" window.

Properties
Showing or hiding the "Properties" window.

Character Map
Showing or hiding the "Character Map" window.

Symbols
Showing or hiding the "Symbol" window.

Data grid
Showing or hiding the data grid.
This table is used for data entry. The data is shown simultaneously on the markers (see chapter "Data grid").

Filter
Filters your current marker according to certain criteria so that only the filtered result is shown (see section "Filter functions").

Status bar
Showing or hiding the status bar.

Show Start Page
Showing or hiding the start page in the workspace.

Reset to Default
Resets all changed settings to default.

Zoom
This menu item contains the following submenu items.

Maximize
Maximize the drawing area display

Minimize

Minimize the drawing area display

Original size
Reset the size of the drawing area display

Document Field Selection
When a marker is selected, all marker fields are selected.

Grid
This menu item contains the following submenu items.

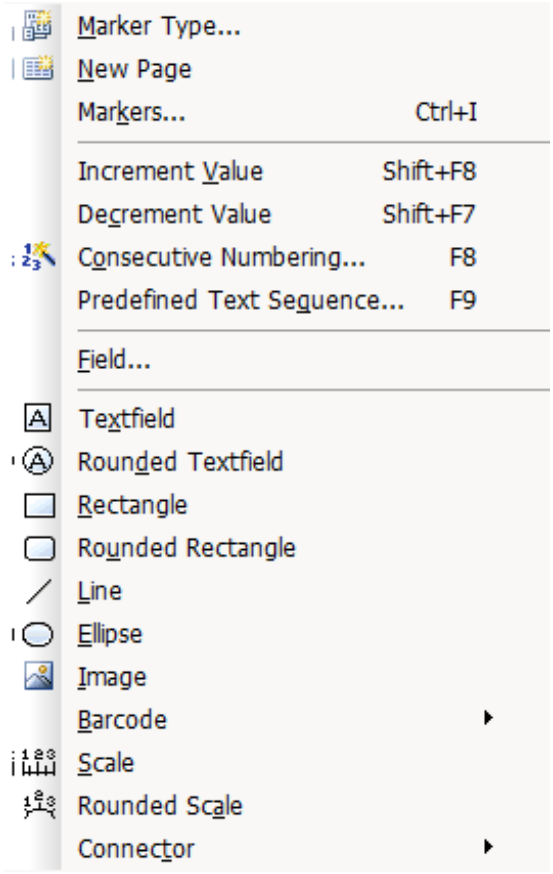
Show
This option places gridlines over the marker type
You can use the gridlines to help you align the elements
(see chapter "Snapping elements to the grid").

Snap to Grid
Here you specify whether you want elements to snap to the gridlines.

Toggle orientation
In the rotated view, all elements are shown rotated by 90°. The elements (e.g. barcode or text) can still be edited in WYSIWYG mode in the rotated view.

The rotated view is possible for all marker types that are NOT "endless".

Insert menu



Marker Type...
You can insert a new marker type via this shortcut menu item. The product catalog is shown for selection.

New Page
Adds a new page for the current marker type.

Markers…
Adds a selectable number of markers to the marker type.

To insert endless strips, see chapter "Endless strips".

Increment Value
The numeric value of a marker/text element is incremented and inserted in the next marker/text element.

The previous content of the target text field is overwritten!

Decrement Value
The numeric value of a marker/text element is decremented and inserted in the next marker/text element.

The previous content of the target text field is overwritten!

The value is only decremented in the positive number range!

Consecutive Numbering...
This menu item allows you to number the markers automatically (see chapter "Consecutive numbering").

Predefined Text Sequence…
Inserts a predefined text sequence, see chapter "Inserting a predefined text sequence".

Predefined text sequences are only possible for text elements.

Field
Here, you can insert the field functions (e.g. system date or page number).

Text field
Adds a text field.

Rounded text field
Adds a rounded text field.

Rectangle
Adds a rectangle.

Rounded Rectangle
Adds a rounded rectangle.

Line
Adds a line.

Ellipse
Adds an ellipse.

Image
Adds an image.

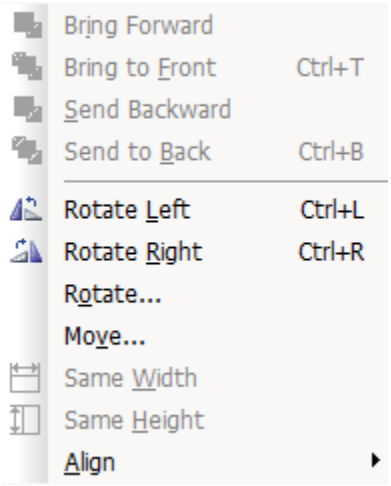
Barcode
This menu item opens another submenu, where you can add a barcode of the type shown (e. g. Code 39, Code 2/5 Industrial, EAN13) (see section "Inserting a barcode").

Scale
Adds a scale (see section "Inserting a scale").

Rounded Scale
Adds a rounded scale (see section "Inserting a scale").

Connector
Inserts various connectors. This is only active for endless strips (see "Endless strips").

Shape menu

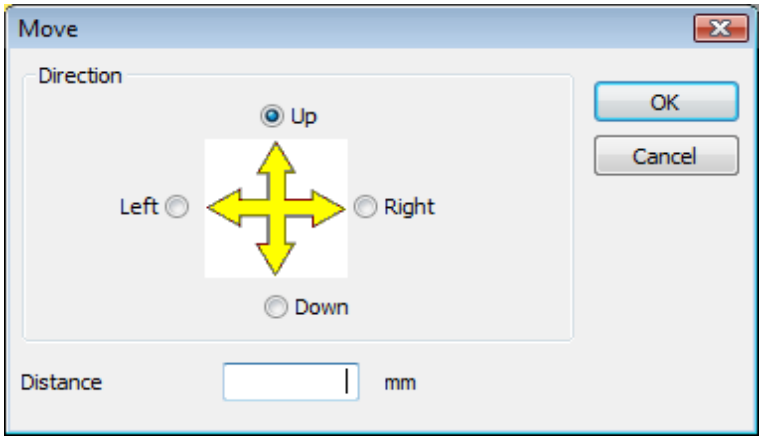


You can use this menu to set the layer of the shape, rotate it, move it and change the width and height.

Moving a shape

- Select **Shape** > **Move…**.

The following window appears:



- Click on the relevant radio button to indicate the direction in which you want to move the element.
- Enter the number of millimeters (inches, µm, cm) you want to move the element.
  The unit of measure displayed depends on the settings in the options dialog.
- Confirm your input by clicking on **OK**.

Format menu

Font
This opens the window in which you can define the font, font size and so on.

Adjusting the font size
The font size of text fields with overflow can be adjusted automatically (see chapter “General operation”, section “Adjusting the font size”).

If the dialog is not shown, either the conditions for it have not been satisfied or display of the dialog has been suppressed (see chapter “Options dialog”, section “Environment”, subsection “General”).

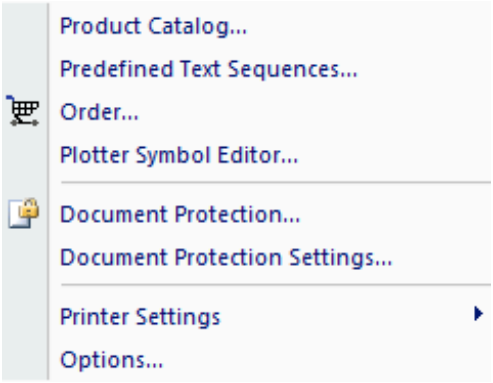
Adjust marker length
The marker length can be adjusted automatically (for endless strips and endless shrink tubes) (see chapter “General operation”, section “Adjust marker length”).

Color coding
Switches on color coding for the selected text fields (see chapter "Color coding").

Layout menu

The "Layout" menu can only be used with a special license.
Please contact the program producer to get the license or the user guide for it.

Tools menu



Product Catalog...
Open the "Product Catalog" window, e.g. to add a new marker type to the current project.

Predefined Text Sequence…
You can use this menu item to define a text sequence which you can then insert via **Insert > Predefined Text Sequence…** (see also chapter "Defining a predefined text sequence").

Predefined text sequences are only possible for text elements.

Order…
The Order Wizard enables you to order marker types from the currently open project by e-mail (see chapter "Orders, Order Wizard").

Plotter Symbol Editor…
Opens the Plotter Symbol Editor (see section "Symbol Explorer/Plotter Symbol Editor").

Document Protection...
This enables or disbales document protection. If no password has been set for document protection yet, the settings dialog opens (see chapter "Document protection").

Document Protection Settings...
Via the document protection settings dialog you can set a new password or remove document protection (see chapter "Document protection settings").

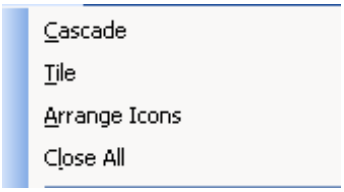
Printer Settings

- **Set Printer Correction…**
  This adjusts the printer's feed rate (see section "Printer correction").
- **Set Material-dependent Slip**…
  With this menu item, you can correct the material slip.

Options

Opens the options dialog where you can define various personal settings, such as the unit of measure, color of grid lines etc. ... (see chapter "Options dialog").

Window menu



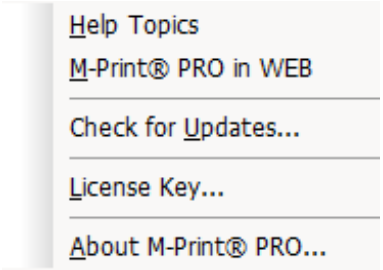
Cascade
Select this menu item to arrange the open marker types and start page so they overlap each other.

Tile
Select this menu item to arrange the open marker types and start page so they are on top of each other in the workspace.

Arrange Icons
This menu item minimizes all windows to icon size.

Close All
This menu item closes all marker types. If you have not saved the file, a message box appears.

Help menu



Help Topics
This menu item takes you to online help.

Program on the Web
This menu item opens the program's website in your default browser.

Check for Updates...
This looks on the Internet for current updates for the software.

License Key…
This menu item opens the licensing process window. Here you can, among other things, see the program's license key if it has already been entered (see section "Licensing").

About …
Displays the version number.

Toolbars

This chapter describes the most important elements of the toolbars.
Many of the standard icons such as Save, Format etc. are not described any further.

Standard

The "Standard" toolbar is always visible.

Description of icons:

Closing the file
Closes the open project. A confirmation prompt concerning saving might appear.

Toggle plot mode
Switches the view to plot mode.
Unplottable elements (e.g. barcode, rectangle) are not shown in plot mode.

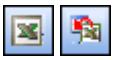
Toggle orientation
Switches the view in the workspace between horizontal and vertical.
Not possible for endless strips.

Duplicate
Duplicates the selected elements.

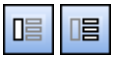
Grouping
Groups the selected elements (or groups) as a new group (see section "Grouping").

Ungroup
Ungroups the selected group.

Consecutive numbering
Opens the dialog for consecutive numbering (see chapter "Consecutive numbering").



Start / exit Excel editing
The content of text and barcode fields can also be edited in Excel (see chapter "Excel editing").



Toggle between active layers
Switches between the project and marker layers.
Toggling can be automatic (see chapter "Options view").

Show or hide document field selection

When you click on an element (e.g. text, image), the associated elements are marked on the other marker (this does not apply to single fields).

Example of showing:

Example of hiding:

Lock element

Locks the selected element against format changes. Content (e.g. text) can still be adjusted (see also chapter "Locking elements").

Sort markers

Opens the dialog to sort the markers.

Synchronize content

Synchronizes the elements with a stored data source (see chapter "Synchronizing content").

Order

Opens the Order Wizard dialog (see chapter "Orders, Order Wizard").

Document protection

Protects the open file against layout changes or removes document protection (see chapter "Document protection").

Layout

You can show or hide the "Layout" toolbar through the menu bar via **View > Toolbars > Layout**.

The icons enable you to edit the selected elements as follows:

- arrange them
- align them
- rotate them
- adjust their size

Format Text

You can show or hide the "Format Text" toolbar through the menu bar via **View > Toolbars > Format Text.**

Description of icons:

Choose font
Choose the font for selected text or text elements.

Choose font size
Choose the font size for selected text or text elements.

Increase font size
Increase the font size for selected text or text elements.
Each click on the icon increases the font size by one.

Decrease font size
Decrease the font size for selected text or text elements.
Each click on the symbol decreases the font size by one.

Increase / decrease character spacing
The character spacing for the selected text elements is increased or decreased.

Increase / decrease row height
The row height for the selected text elements is increased or decreased.

Bold
Format the selected text or text elements in bold.

Italic
Format the selected text or text elements in italics.

Underline
Underline the selected text or the content of text elements.

Strikethrough
Strike through the selected text or the content of text elements.

Align left

Center

Align right

Vertical alignment top

Vertical alignment center

Vertical alignment bottom

Set text orientation to 0°

Set text orientation to 90°

Set text orientation to 180°

Set text orientation to 270°

Change text color
Choose the color of selected text or of the content of text elements.

Color coding
Applies the defined color coding to the selected text element (see chapter "Color coding").

Format Element

If you cannot see this toolbar, select **View > Toolbars > Format Text.**

You can also use the "Properties" window to change the color and fill pattern (see section "Border and fill").

Description of icons:

Line color

If you now draw a new line, it will have the chosen color.

To change the color of existing lines, first select the lines and then choose the color you want.

Line thickness

If you now draw a new line, it will have the chosen thickness.

To change the thickness of existing lines, first select the lines and then choose the thickness you want.

Line Type

If you now draw a new line, it will have the chosen line type.

To change the type of existing lines, first select the lines and then choose the type you want.

Fill color

Change the fill color of selected elements.

Fill Pattern

Change the fill pattern of selected elements.

Elements

You can show or hide the "Elements" toolbar through the menu bar via **View > Toolbars > Elements**.

Description of icons:

Select
Tool to select elements.
Can also be used in combination with the Ctrl and Shift keys.

Multiple selection
(See chapter "Selecting elements").

Text field
Drag the mouse on the marker to create a text field.

Rounded text field
Drag the mouse on the marker to create a rounded text field.

Create rectangle / square
Drag the mouse on the marker to create a rectangle.

Create rounded rectangle / square
Drag the mouse on the marker to create a rounded rectangle.

Draw line
Drag the mouse on the marker to draw a line.

Draw circle / ellipse
Drag the mouse on the marker to create an ellipse.

Insert image
Drag the mouse on the marker to create a frame and select an image.
The program supports the image formats BMP, EMF, GIF ICO, JPG, PNG, WMF and TIFF.

Inserting a barcode

Drag the mouse on the marker to create a barcode field.

The program supports the following barcode types:

- Code 39
- Code 128
- Code 2/5 Industrial
- Code 2/5 Interleaved
- EAN13
- EAN8
- EAN128
- UPC-A
- UPC-E
- QR-Code
- DataMatrix

You can adjust the barcode type in the "Properties" window (see section "Content").

Drag the mouse on the marker to create a straight scale. A dialog box opens for further settings (see chapter "Inserting a scale").

Drag the mouse on the marker to create a rounded scale. A dialog box opens for further settings (see chapter "Inserting a scale").

Drag the mouse on the marker to create a connector. You can adjust the connector type in the "Properties" window.
This is only active for endless strips.

You can set the exact size and position of elements in the "Properties window".

You will find further instructions for inserting elements in chapter "Commonly used functions".

Docking Bars View

You can show or hide the "Docking Bars View" toolbar through the menu bar via **View > Toolbars > Docking Bars View.**

Description of icons:

Show or hide Project Explorer
See also chapter "Project Explorer".

Show or hide layers
See also chapter "Layers".

Show or hide properties
See also chapter "Properties window".

Show or hide character map
See also chapter "Inserting special characters".

Show or hide symbols
See also chapter "Inserting symbols".

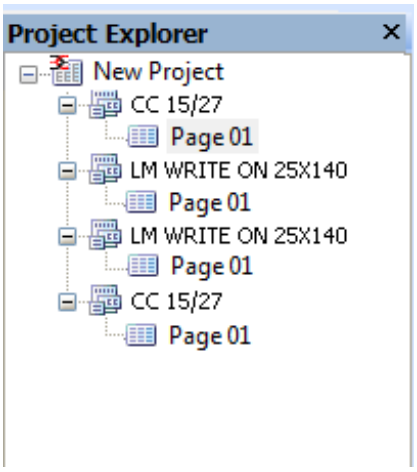
Show or hide data grid
See also chapter "Data grid".

Project Explorer

- You can show or hide this through the menu bar via **View** > **Project**.

When you open a project, it appears in the Project Explorer, with its subprojects. The individual marker types are shown for each subproject. The associated pages are among the marker types.

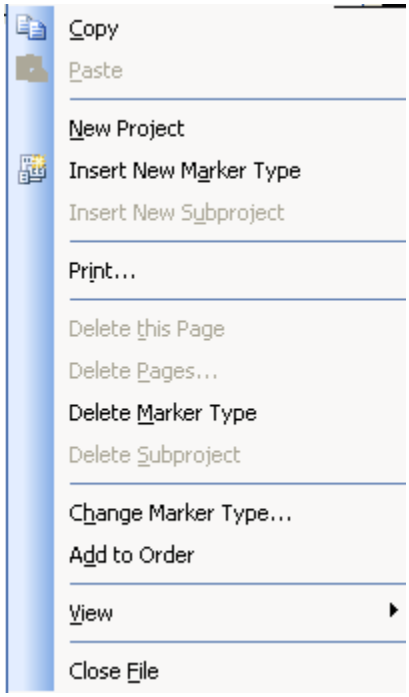
To see the details or to get a better overview, you can expand or reduce the lower-level hierarchical structures in the Project Explorer by left-clicking on the "+" and "-" icons:



If you press **x** on the numeric keypad of your keyboard, you can open all the sublevels of a hierarchical level at once.

Shortcut menu

Click on an object in the Project Explorer, then press the right mouse button.
This opens the shortcut menu.
The shortcut menu contains functions that are relevant to the particular object, i.e. only the functions in dark type are available.



Copy
You can use this shortcut menu item to copy a selected marker type or subproject.

Paste
Select the project or subproject to which you want to paste the copied marker type or subproject.

New Project
This shortcut menu item enables you to create a new project.

Insert New Marker Type
You can insert a new marker type via this shortcut menu item. The new marker type will then appear in the Project Explorer.

Insert New Subproject
You can insert a subproject below the current project or subproject via this shortcut menu item.

Print
This opens the dialog box for printing marker types.

Delete this Page
Select the page you want to delete.

Delete Page
A selection dialog enables you to select the pages to be deleted.

Delete Marker Type
This shortcut menu item deletes the currently selected marker type. The deleted marker type no longer appears in the Project Explorer.

Delete Subproject
This item removes the currently selected subproject. The deleted subproject no longer appears in the Project Explorer.

Change Marker Type...
This menu item enables you to change the marker type.

Add to Order
You can add the selected article to your order list with this shortcut menu item (see section "Orders, Order Wizard").

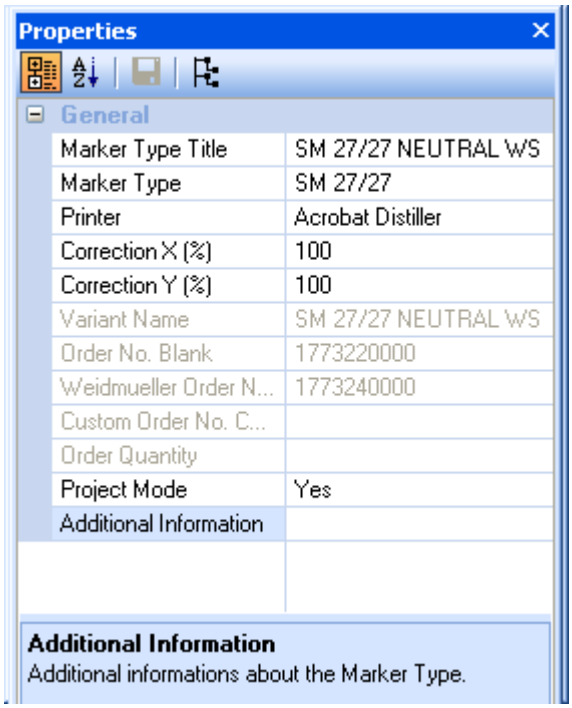
View
Here you can switch between different views (see section "View menu").

Closing the file
The current project is closed. If you have not saved it yet, a confirmation prompt appears.

Properties window

The properties of the various elements (e.g. text field, image, barcode or scale) are visible in the "Properties" window.

- To show or hide, select **View** > **Properties** on the menu bar.



The view of the "Properties" window can be selected via the icon buttons.

Show properties sorted by categories.

Show properties sorted alphabetically.

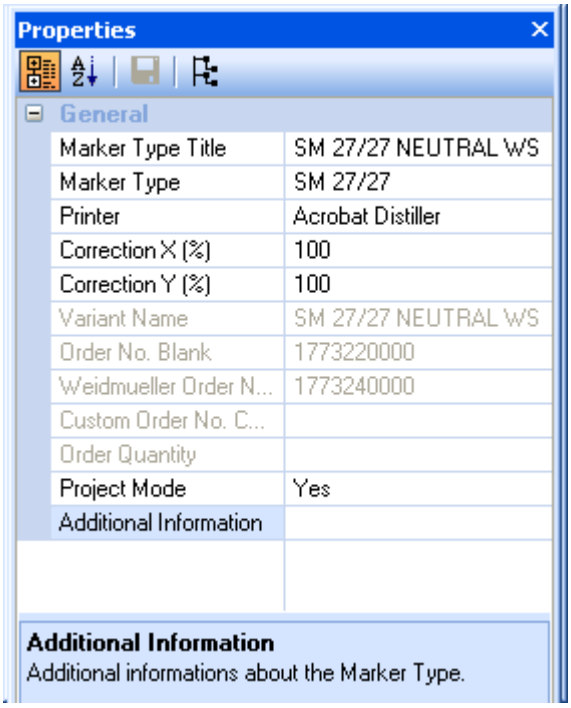
The defined properties are saved as defaults for the selected object.
The properties of "locked" fields cannot be set as defaults. Unlock them first (see section "Behavior").

This displays all layers and the elements in the layers in a tree structure.

You will find more information in chapter "Marker properties".

Marker properties

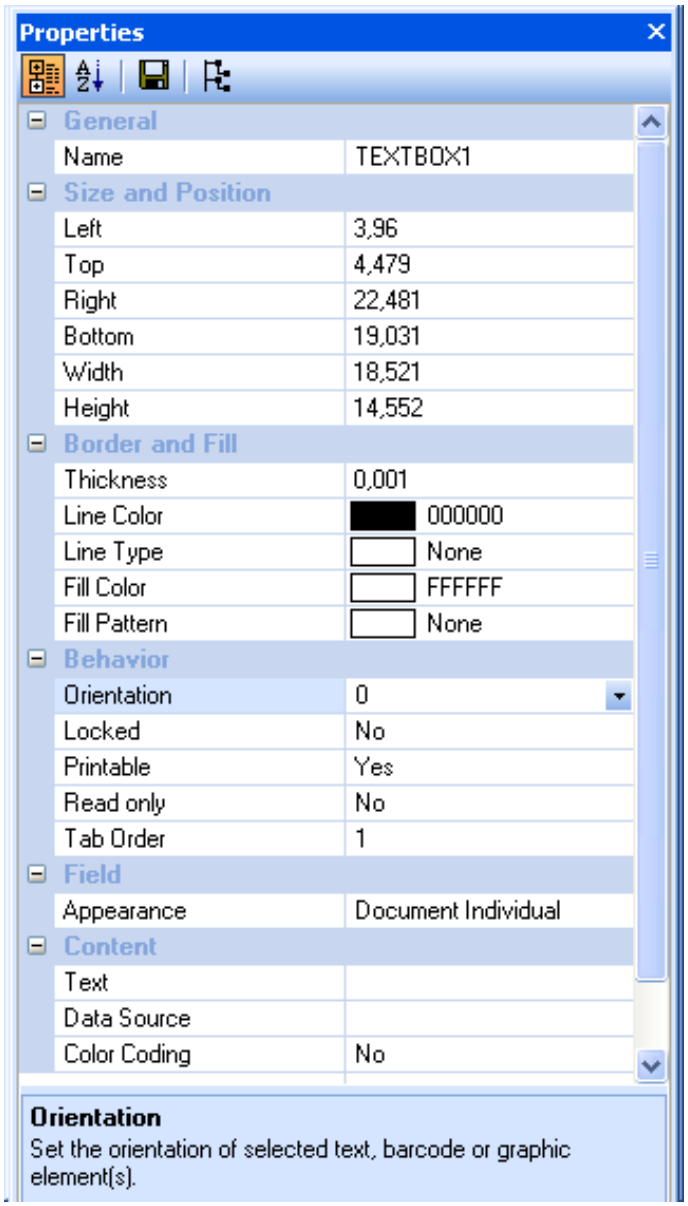
If you click on the marker name in the Project Explorer, the marker properties are displayed.



Marker type title	- Title of marker type - You can change the name.
Marker type	The selected marker type. If you select another marker type here, the program tries to apply the content (see also "Edit menu").
Printer	The printer mapped to the marker type (see also "Printing").
Correction	The saved printer corrections.
Project mode	Whether project mode has been selected or not. (See also chapter "Options dialog").

Showing properties

- To show the "Properties" window, select **View > Properties**.
- Click on the element with the properties you want to change.



The "Properties" window shows different properties, depending on the selected element.

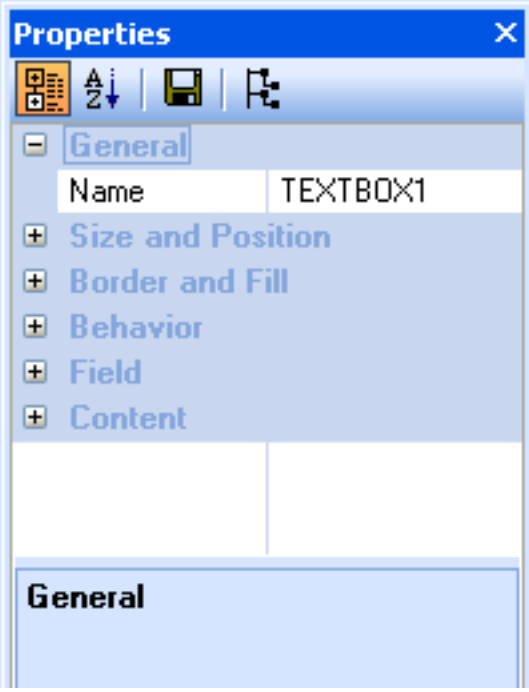
Locked (grayed-out) properties are either not available or locked for the selected element. To unlock, set the "Locked" property to "No" (see section "Behavior").

Adjusting properties

The "Properties" window is subdivided into the following categories, which are described in more detail below.

- General
- Size and position
- Border and fill
- Behavior
- Field
- Content

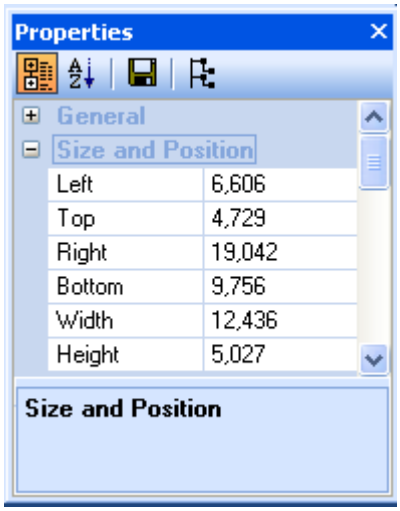
General



Name - Designation of the selected element.
- You can change the name.
- This name is also used in column mapping when files are imported (see chapter "Import – Field mappings").
- This name also appears as a column heading in the data grid.

☝ The name must not contain special or blank characters!

Size and position

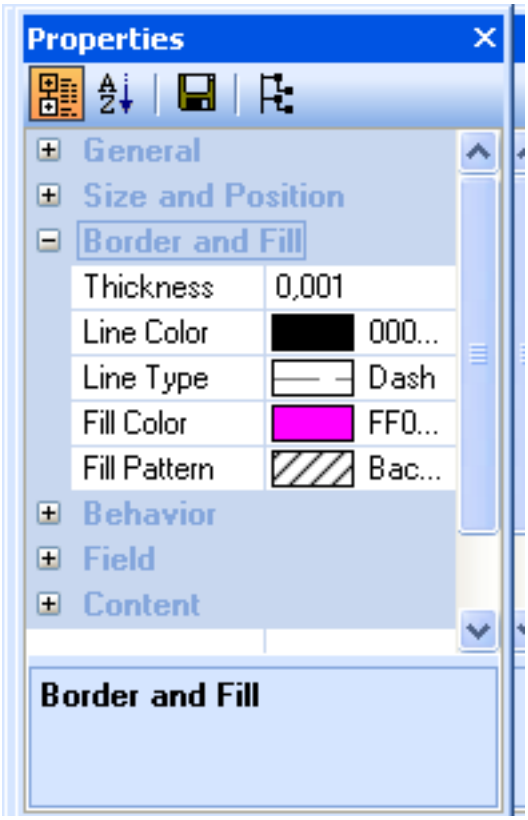


You can use this category to specify the size and position of the element.

- Distances are measured from the zero point, which is located in the top left corner of the MultiCard/label.
- The unit of measure is defined in the options dialog (see chapter "Options").

The "Moving elements" section describes alternative methods for moving an element.

Border and fill

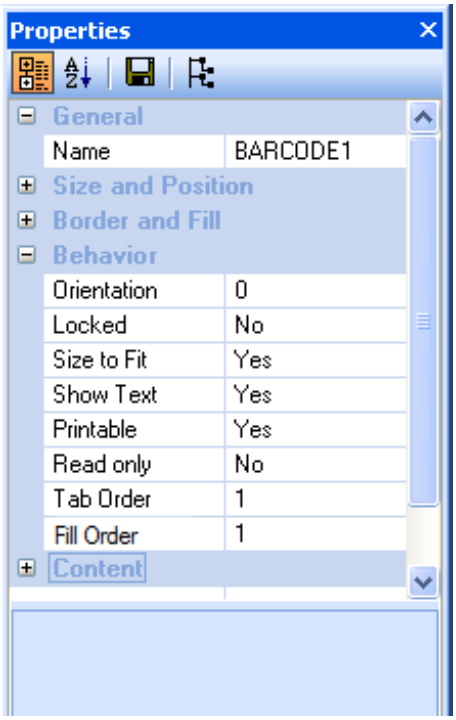


You can use this category to specify the line thickness, color, pattern and line type of the selected object. A color value can be entered directly for the color settings.

The color value is created as follows: RRGGBB (red, green, blue)
Enter the hexadecimal value.

Example: FF0000 is red

Behavior

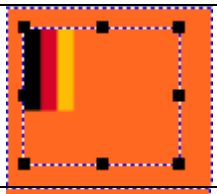
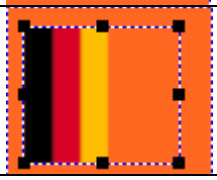


Orientation	- Element orientation in steps of 90°. - Only for text field, image and barcode - Document-individual property
Locked	- Element lock - Locked elements cannot be modified. - Exception: The content of text fields can still be modified. - The properties of locked elements cannot be set as defaults. - In addition, the lock can be protected with the document protection feature (see chapter "Document protection")
Size to fit	- The content is adjusted to the size of the barcode or image field or displayed in original size - See example - Only for image and barcode
Show text	- Shows or hides the plain text of a barcode field - Only for barcode
Printable	- The element is or is not printed with the project.
Read only	- The content is locked so that it cannot be modified. - Only for text field, image and barcode

Tab order	- Order by which the field is selected with the Tab/Enter key. - Values from 1 to x are allowed - Fields with the same tab order are selected in the order of their creation.
Fill order	Subsequently added fields (text, barcode) are made available for further editing on endless material via a unique value (e.g. for import, data grid, Excel editing).

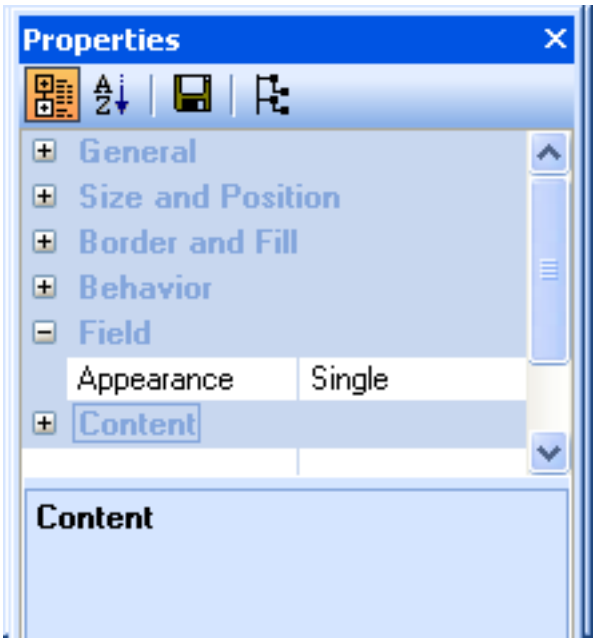
Example:

Barcode		
Size to fit Yes		The barcode field is compressed horizontally. The numbers thus close up.
Size to fit No		The original distance between the numbers remains, but not all content is shown.

Image		
Size to fit Without		The image is shown in its original size.
Size to fit Proportionally		The image is adjusted to the dimensions of the image field and may be distorted.
Size to fit Rectangle		The image is adjusted to the dimensions of the image field. The proportions are retained.

Field

You can use the "Field" category to specify the type of the field.

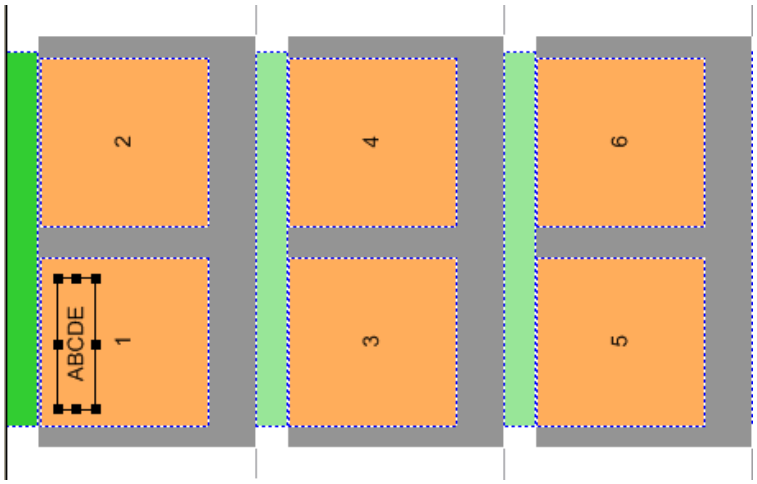


You can choose from these field types:

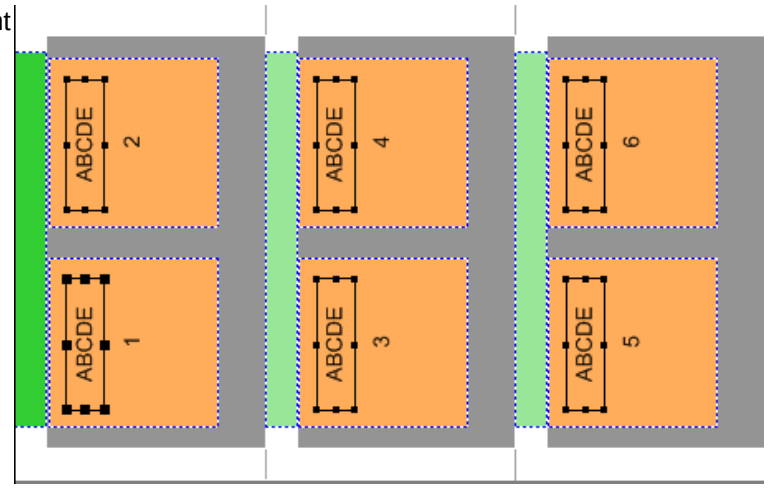
Single field	- A single field has **no association** with any other field. - Each single field has its own separate formatting and content. - If you make changes to a single field, the changes only apply to that particular field. - The opposite of a single field is a document field.
Identical document field	- Exists on **every** marker area. - Has **identical** text content and position and formatting properties on every marker area.
Individual document field	- Exists on **every** marker area. - Is a field with **identical** position and formatting properties on every marker area. - But it may have **individual** (different) texts/text formats on every marker area.

Example:

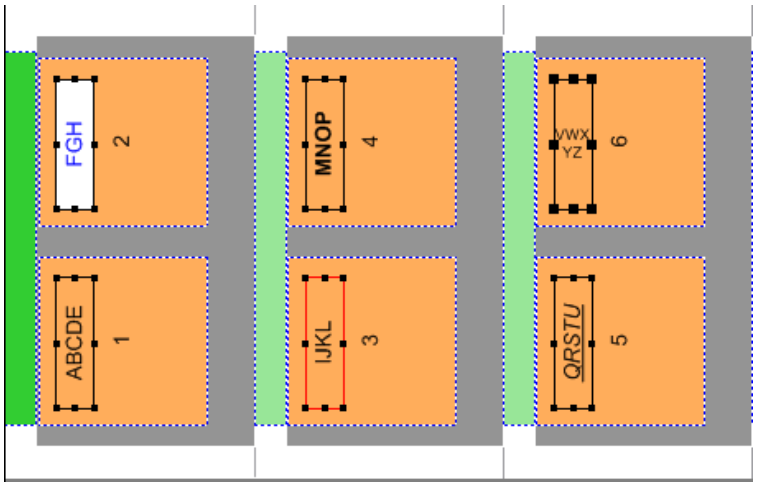
Single field



Identical document field

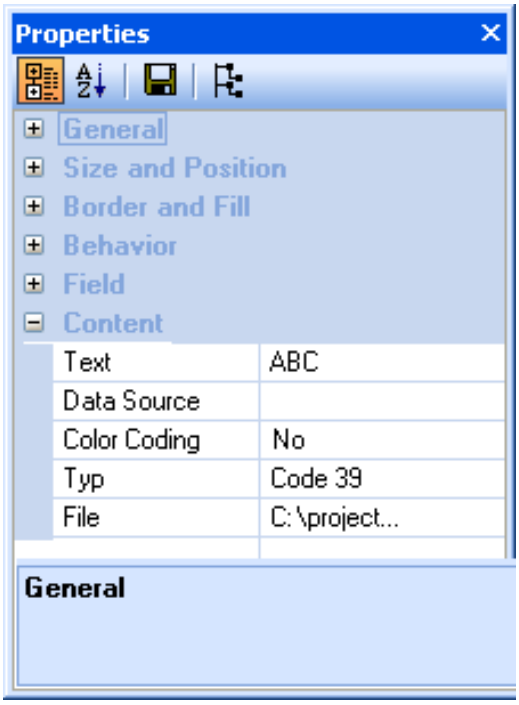


Individual document field



Content

The content of single elements.



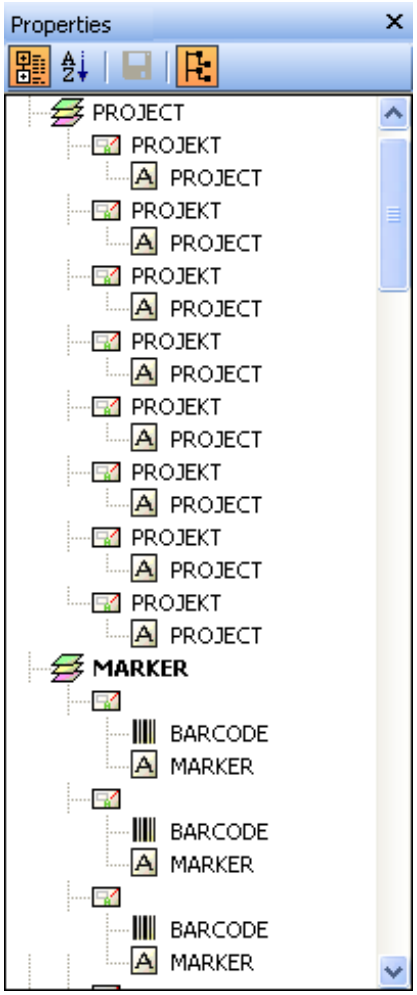
Text preview	- The text content of the element. - Only for text field and barcode
Data source	- The name of the element acting as the data source for synchronization (see chapter "Synchronizing content"). - Only for text field and barcode
Color coding	- The saved color coding is applied to numbers entered (see "Color coding"). - Only for text field.
Type	- For images: the way the image is inserted. - *Path*: the image is inserted as a reference to an image file - *Embedded*: the image is embedded in the project - See also chapter "Saving an image in a file“ and "Transferring an image from a file“ - For barcodes: the selected barcode type (Code 39, Code 128, Code 2/5 Industrial, Code 2/5 Interleaved, EAN13) - Only for image and barcode.
File	- If an image of the "path" type is inserted, the image is selected via "File". - Only for image.

Anchor angle	- Specifies the angle at which the text starts. 0 corresponds to the upper start position (12 o'clock). - For rounded text fields only.
Scale values	A description of the scale properties can be found in chapter "Scale properties".

Selecting elements

Click on this icon in the "Properties" window to specifically select elements.

This displays all layers and the elements in the layers in a tree structure.



Example:
The illustration shows Page 01 with the project layer and eight project areas. You can also see the marker layer with one marker area containing a barcode and a text field.

Clicking on the barcode, for example, activates it in the marker area in the workspace, ready for editing.

This selection method is useful for elements in layers.

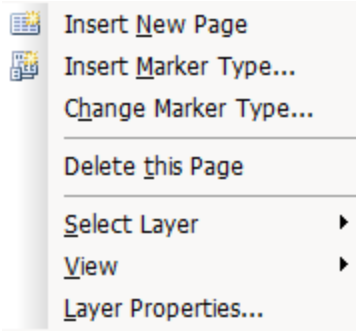
Workspace

The workspace shows the start page by default when the application is started (Menu **View** > **Show Start Page**).

When you open a project/marker type, it is displayed in the workspace.

Shortcut menu in the workspace

Right-click inside the workspace.
This shortcut menu appears:



Inserting: New page
A new page is added to the active marker type in the workspace.

Insert Marker Type
You can use this shortcut menu item to add a new marker. The product catalog is shown, and you can select a marker type or a template to be inserted from it.

Change Marker Type…
A selection from the product catalog enables you to change the displayed marker type. The content is transferred (if possible).

Delete this Page
Select the page you want to delete.

Select Layer
Switch to another layer (e.g. marker layer, project layer).

View
Here you can switch between different docking bar views (see section "View menu").

Layer Properties
This shortcut menu item enables you to set the layer properties (e.g. color, lock).

Layers

The pages of a marker type are organized into the following layers:

- Locked layer
- Free layer
- Marker layer
- Project layer
- Background layer

In principle, a page consists of either four or five layers. A MultiCard page has all five layers. All other marker types (for example labels, credit-card formats etc.) have all the layers except the project layer.

Background layer
The purpose of the background layer is to provide visual support for the user. You can change the color of the background layer and add elements (text and images) to it. The entire area of this layer can be used. The background layer is always the bottom layer; it is not printed by default and is locked. It is a standard layer and cannot be removed.

Project layer
You can add text or images to the project layer, using the surface area defined for it in the layout. The project layer is always the second layer. It is printed by default and is not locked. It cannot be removed.
Marker layer
The marker layer is the third layer. This is where MultiCard mats or labels are actually captioned. You can arrange any number of text fields, shapes (lines, rectangles, etc.), images and barcodes, using the areas defined in the layout. The marker layer is printed by default. It cannot be removed.

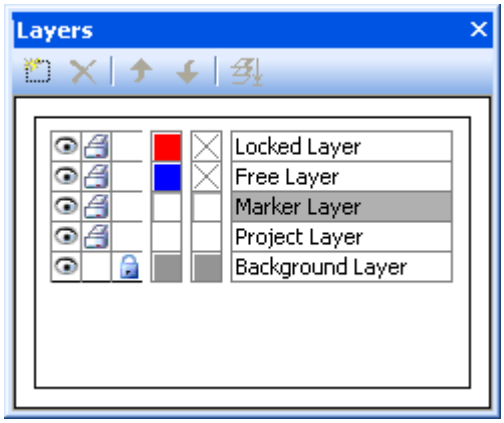
Free layer
The free layer covers the entire surface area of the page. You can arrange text and images anywhere on the layer. The free layer is always under the locked layer. Unlike the other layers, it can be duplicated, and any added free layers can be removed. They can also be moved among each other. In addition, all free layers can be combined into a single free layer. There must always be at least one free layer. It cannot be removed. Free layers may be printed.

Locked layer
You can arrange elements (rectangles, lines, ellipses, scales) on the locked layer, covering the content of the other layers so they cannot be seen or printed. This layer is always the top layer. It cannot be removed.
For example, you could use the locked layer to create a circle at the position of a bore hole or an LED to prevent printing in this area.

Layers window

Here you can see all layers of a marker type (see also chapter "Editing layers").

- To show or hide, select **View** > **Layers** on the menu bar.



The "Layers" window has the following toolbar:

You can **only** use the icon buttons on the free layers.

Click on this icon to add a new free layer.

Click on this icon to delete the selected free layer.

Click on this icon to move the selected free layer up one layer.

Click on this icon to move the selected free layer down one layer.

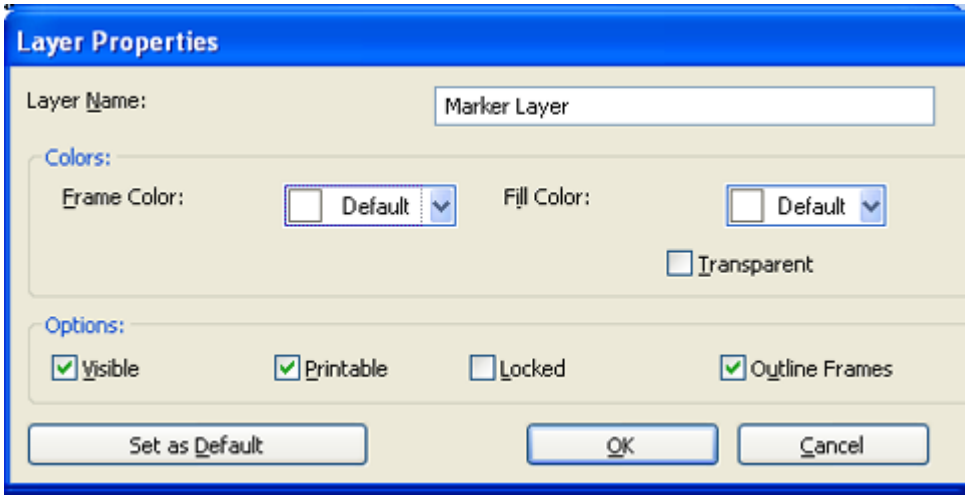
Click on this icon to reduce all free layers to a single layer. You cannot undo this action.

- Click on the layer you want to change, then click on the relevant icon.

Layer properties

You can change the settings of layers via the "Layer Properties" window.

To open the "Layer Properties" window, double-click on the name of a layer in the "Layers" window:



Here you can change the name, border color and fill color of the selected layer.

You can also specify whether you want the layer to be visible or not, and whether you want to print it or not. Here you can also define whether the layer should be locked or be available for editing.

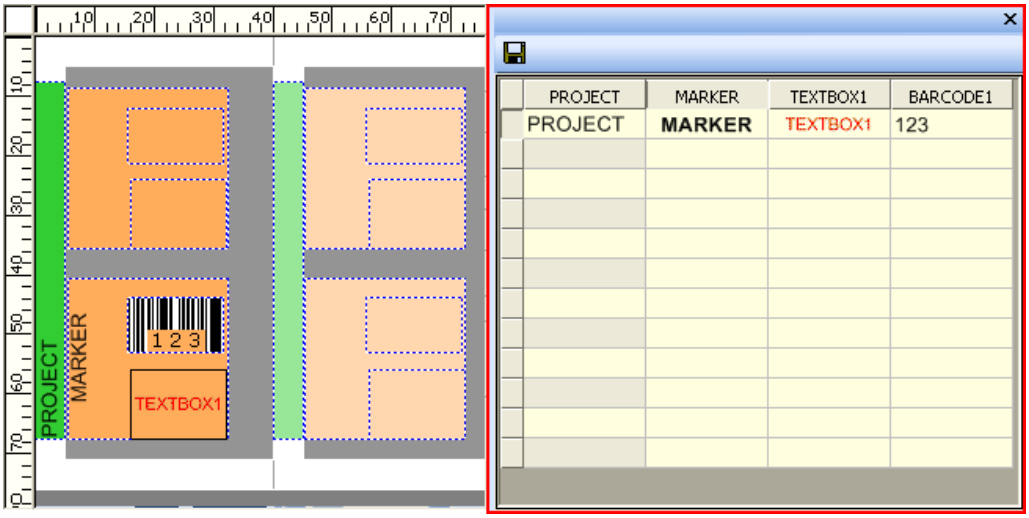
After changing the settings, confirm by clicking on OK.

☝ If you click on the **Set as Default** button, you can save your settings and use them as the default settings the next time you open a new marker type.

Data Grid window

To show or hide, select **View** > **Data Grid** on the menu bar.

The data grid shows the content of text and barcode fields and allows the content to be managed (insertion, editing, copying/pasting).



In order to make subsequently added fields (text, barcode) available for further editing on endless material, set the "Fill order" property in the properties of the field (see chapter "User interface", section "Size and position").

Defining the width of the data grid

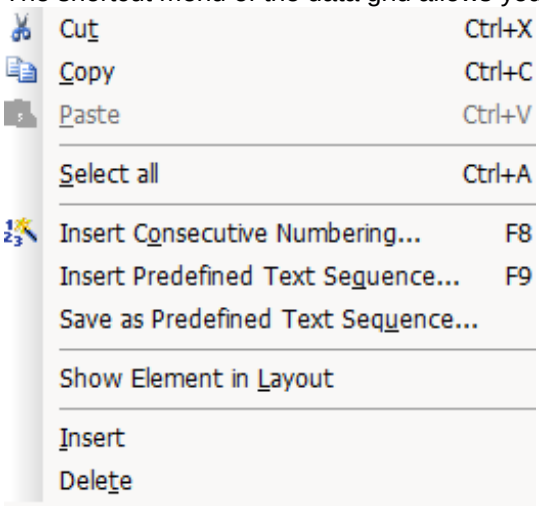
You have several options to define the width of the data grid:

	Sets the current width as the default for: - the current marker type - the whole program
Save project	When a project file is saved, the respective table widths of the open marker types are saved in it. When the project file is opened, these table widths are available again.

The selected column widths and row heights are also saved.

Shortcut menu of the data grid

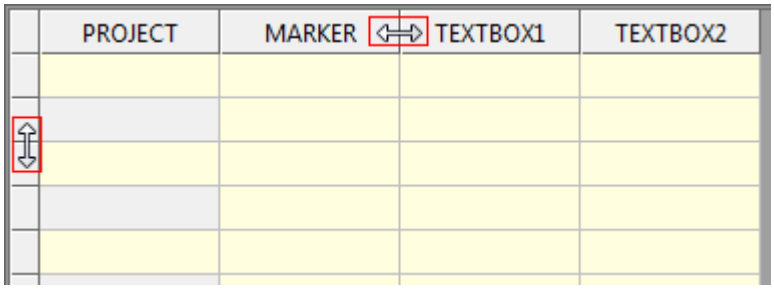
The shortcut menu of the data grid allows you to call up different general program functionalities.



To show and select a field of the data grid in the workspace, right-click into the field and select **Show Element in Layout** in the shortcut menu.

Row height and column width of the data grid

The row height and column width can be fitted to the optimal width or height of the table content. To do this, select the rows or columns in question and double-click on the gap of the column or row header to set the optimum value.

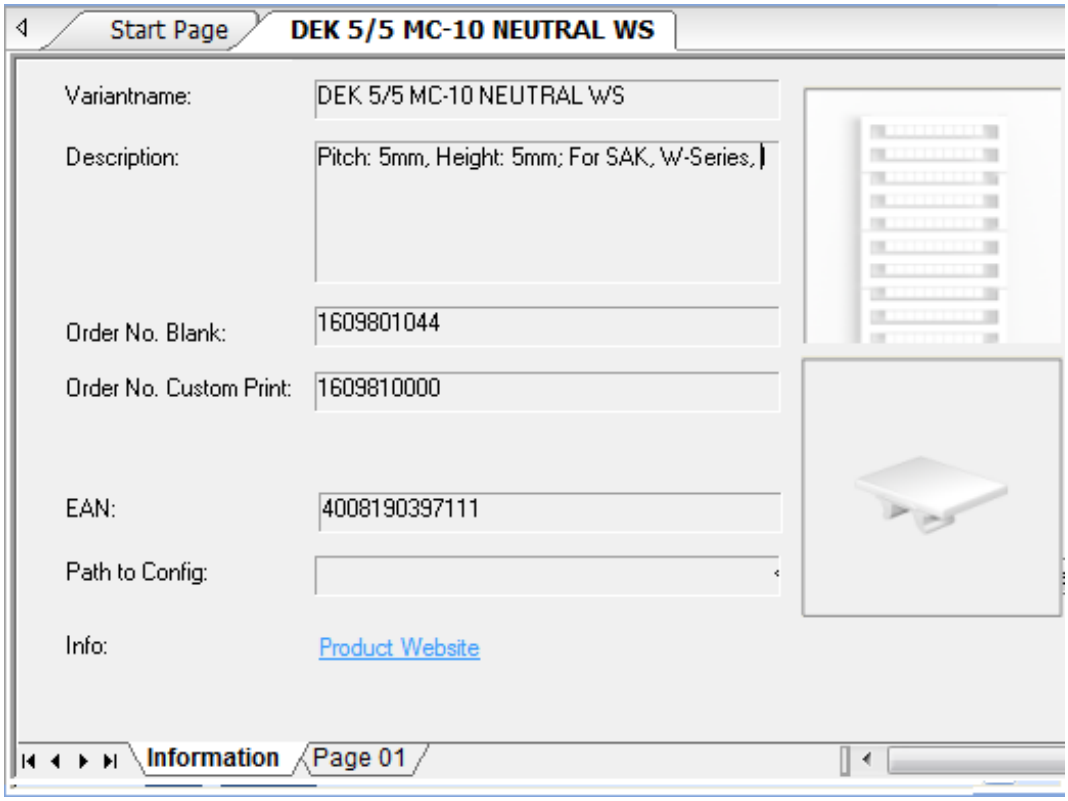


The selected column widths and row heights can also be saved, see ("Defining the width of the data grid").

Info page

An info page is displayed in addition for a marker type.

If you do not want the info page to be shown, you can disable it in the options dialog (see section "Environment" in chapter "Options dialog").



The following can be displayed, depending on the product:

Product layout

Path to configuration

Click on the ... button to open the path to the product file (*.mcf) for the marker type.

Sort order

Definition whether sorting is in N-order or W-order.
The basic settings are defined via the product file.

PrintJet settings

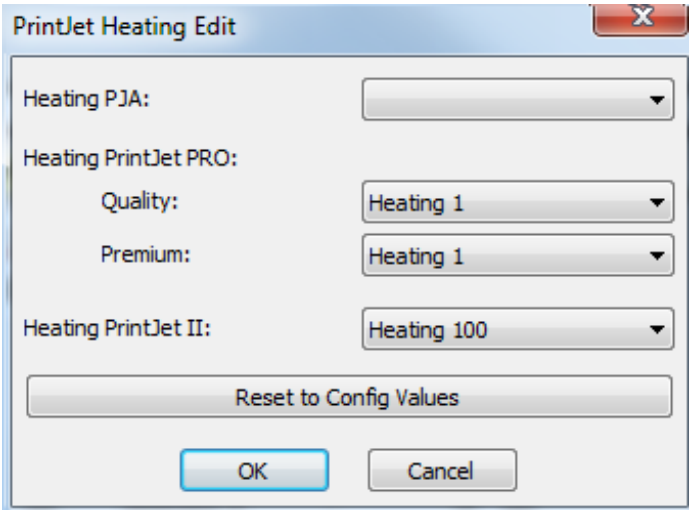
If a PrintJet has been assigned (see "Mapping a printer to a marker type"), the heating settings and/or print quality for the printer are shown here. The values can also be set at this point for the product variant.

The print quality of the Print**Jet ADVANCED** can also be set in general via the

options dialog (see Print**Jet ADVANCED**“).

Select PrintJet Heating…

Click on this button to adjust the heating of the PrintJet printers.



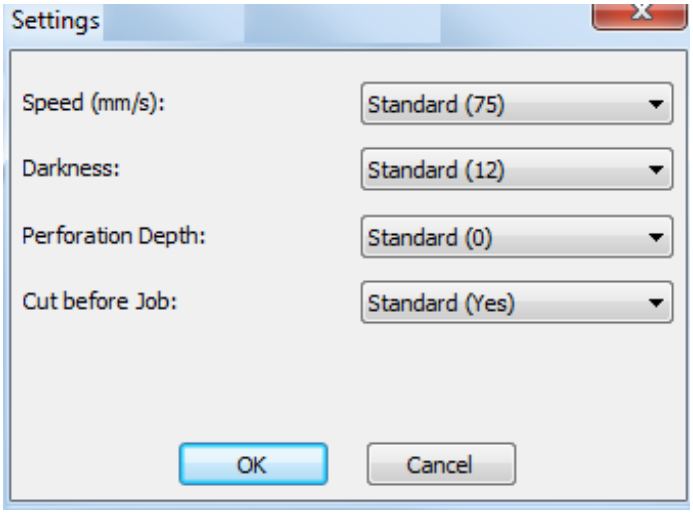
To fine-adjust the heating of the Print**Jet ADVANCED**, you can use the drop-down field "Heating PJA" to choose as follows:

--	Much less heat
-	Less heat
Default	Default value
+	More heat
++	Much more heat

Also see chapter "Options dialog", section "PrintJet ADVANCED", section "General".

THM / TwinMark settings

If a THM printer is allocated to an endless material (see "Mapping a printer to a marker type"), various printer parameters can be adjusted for the material.



The print settings of the options dialog are used for the "Default" list entry. The default value is shown in parentheses. All other selected values have priority to the general print settings of the THM printers (see chapter "Options dialog", section "THM printer").

Getting started

Introduction

This chapter is for users with a sound knowledge of Windows.

The following step-by-step explanation shows the main things you need to do to effortlessly add professional captions to marker types.

Step 1: Starting the program

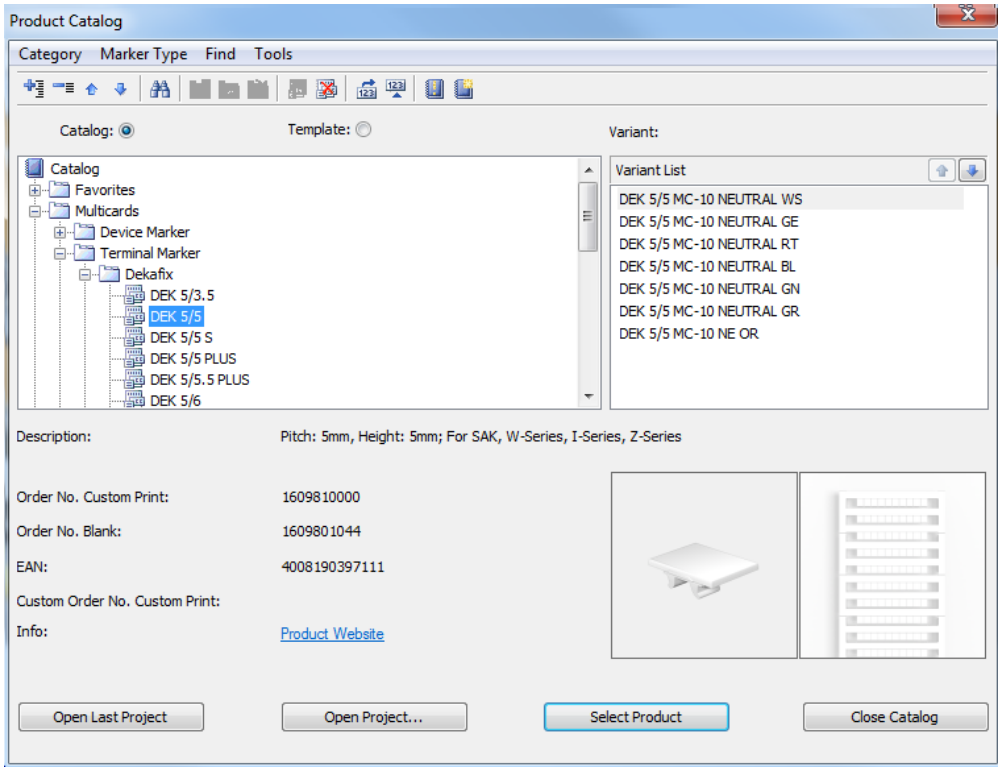
- Double-click on the program icon on the desktop

or

- Call up M-Print® PRO via Start – Programs – Weidmüller – M-Print® PRO.

Step 2: Selecting the marker type

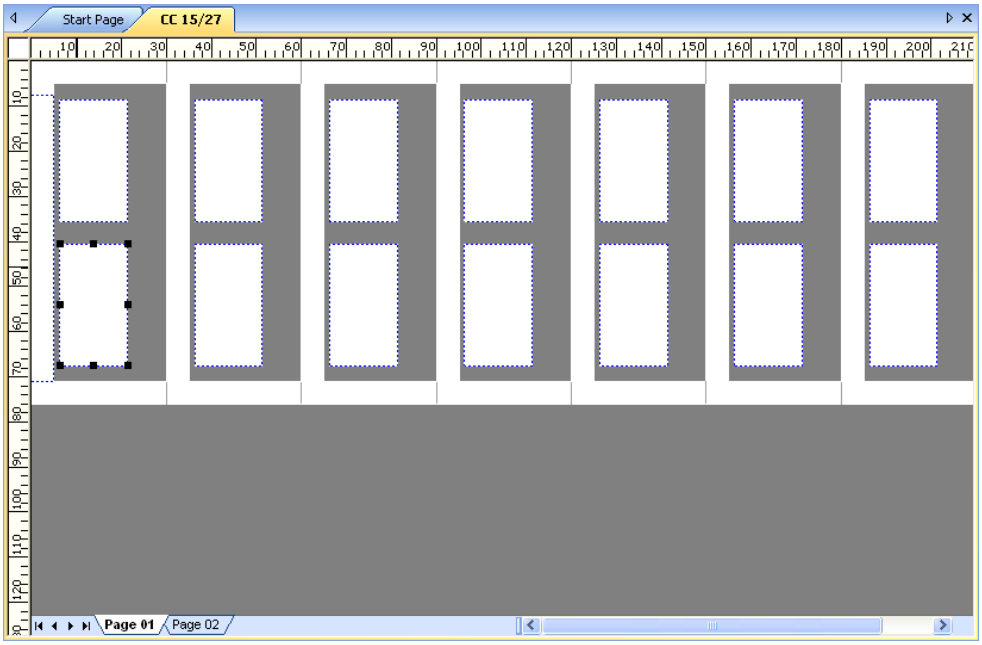
After starting the application, you will see the "Product Catalog" window:



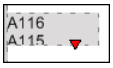
- In the left pane under "Catalog", click on the marker type you want to use. In the right pane, select the variant by clicking on it, then click on the **Select Product** button. The marker type is opened.

Step 3: Captioning the marker

- Select the marker you want to caption by left-clicking on it.



- To move to the next marker, press the **Enter** key or click on the marker you want to move to.



If a text field shows a red triangle when text has been inserted, the text does not fit into the field. Not all of the text is displayed or printed. In this case you must shorten the text or let the program fit it automatically (see "Adjusting the font size" in chapter "Format menu").

If a text field shows an orange triangle when text has been inserted, single-line text is shown with an automatic word wrap as the text field is too narrow (also see "Adjust marker length" in chapter "Format menu").

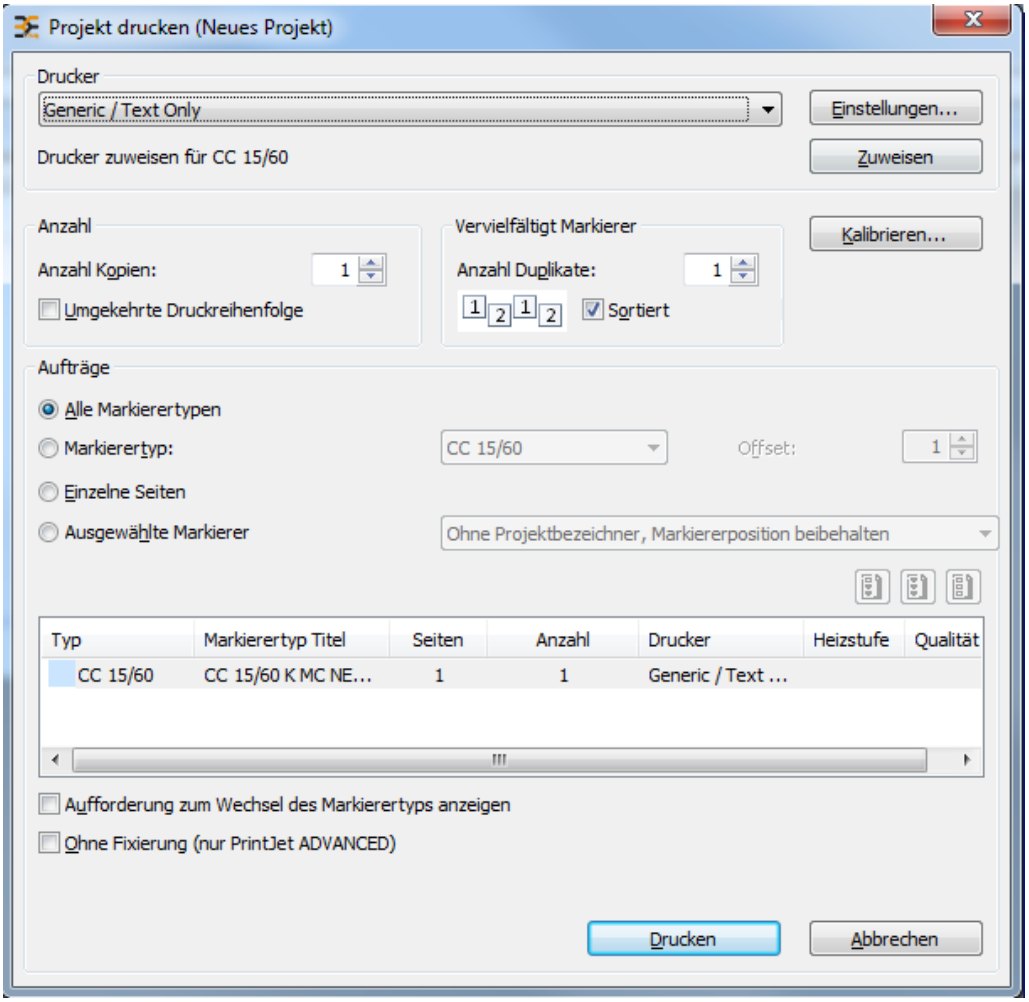
Step 4: Saving the file

When you have entered all the text, you can save the file as follows:

- Select **File** > **Save** on the menu bar.
- In the next window, enter the file name and click on the **Save** button.

Step 5: Printing the marker type

- Select **File** > **Print...**. on the menu bar.
- Select a printer from the printer list and click on **Map**.
- In the next window, select the printer type (printer/plotter).
- In the dialog that follows, you can define whether you want to map the output device to all variants of the product. Select "No" to assign just the selected variant.
- Select a marker type from the list and click on the **Print** button (see also chapter "Printing").



If no printer has been mapped to any or all of the marker types to be printed, pressing the **Print** button sends the data to the default printer.

If printing is not positioned properly, you must calibrate the printer (see chapter "Adjusting the printer to the marker type").

Step 6: Closing the file

- Select **File** > **Close** on the menu bar.

Managing projects

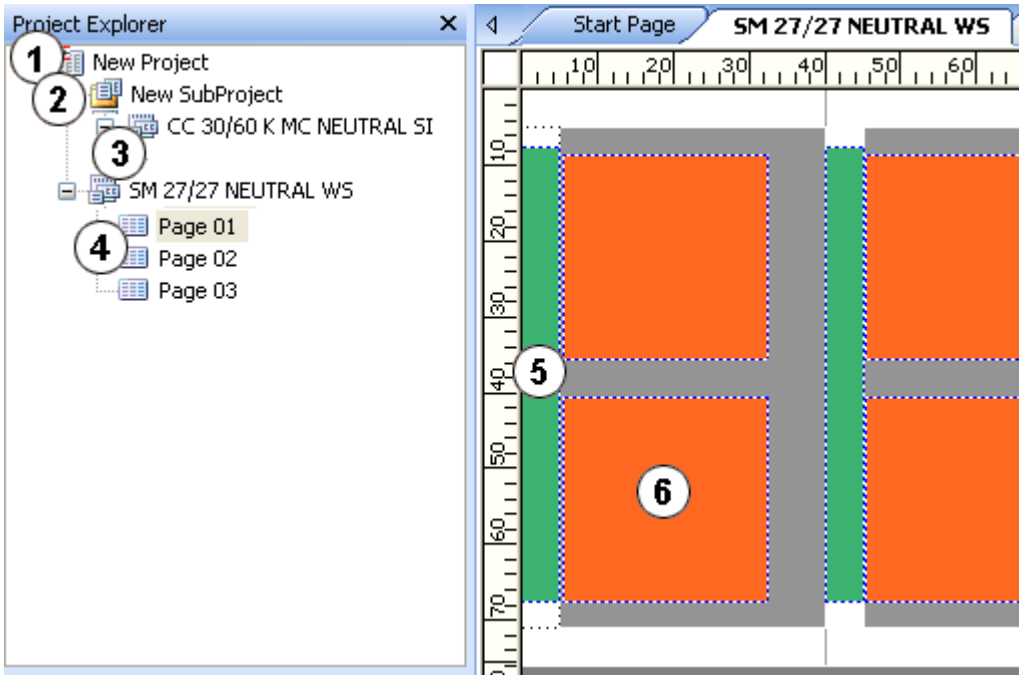
Project structure

A project (1) can be made up of a number of subprojects (2).
These subprojects can contain any number of MultiCards or labels.
A marker type can consist of several pages (4) and can include a range of elements, such as text, barcodes, images and shapes like lines, rectangles, etc. All images and barcodes are stored in dedicated folders.

Depending on its type, a MultiCard consists of a defined number of marker areas (6) and project areas (5), arranged in horizontal and vertical fields.

The marker areas are the areas actually containing the captioning information. They are on the marker layer.
The project areas are used to assign the marker to a particular project. They are on the project layer..

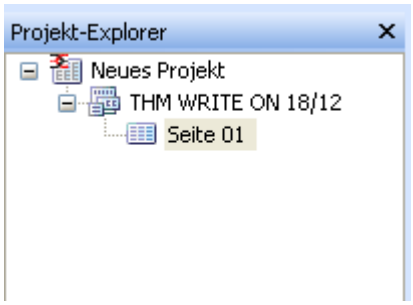
A project can have several marker types (3).



The currently open file or the most recently opened file appears at the top of the list under the **Open** option on the start page.

Changing the project name

When you open a new marker type, a new project category is created automatically, with the default name "New Project".
If the Project Explorer is not shown, see chapter "General operation".

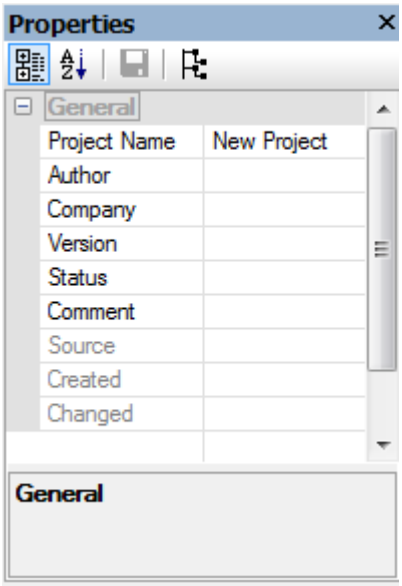


Follow these steps if you want to use a different name:

- Click on the "New project" category.

Click on this toolbar icon.
If the "Properties" toolbar is not shown, see chapter "General operation".

The "Properties" window appears.



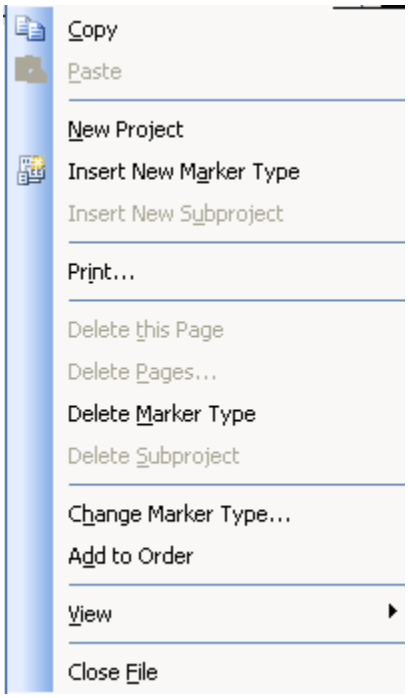
- Click inside the "New project" field and overwrite the entry with the project name you want to use.

Adding a marker type to a project

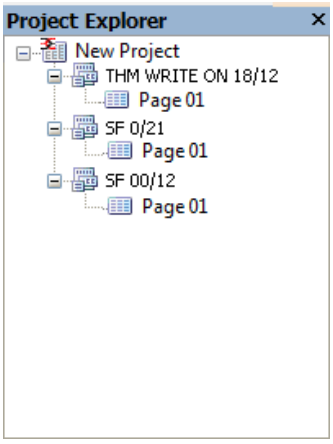
You can assign several marker types to a project.

- Right-click inside the Project Explorer.

The following shortcut menu appears:



- Select **Insert New Marker Type** on the shortcut menu. Follow the steps shown in the dialog, and the marker type is inserted in the Project Explorer.



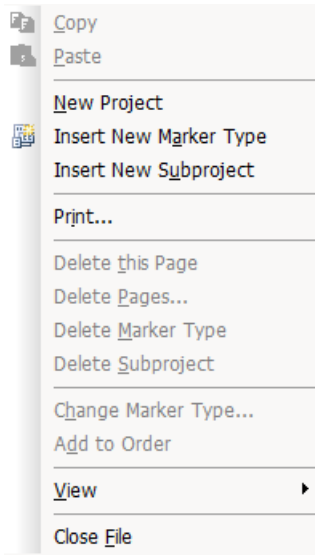
Adding a subproject

To make it easier for you to manage the marker types in a project, you can organize them in subprojects.

Follow these steps to add a subproject:

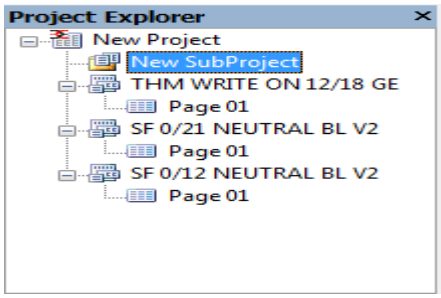
- Click on the main project at the top of the hierarchy, then press the right mouse button.

The following shortcut menu appears:



- Select **Insert New Subproject** on the shortcut menu.

The subproject is placed in the hierarchy below the main project.



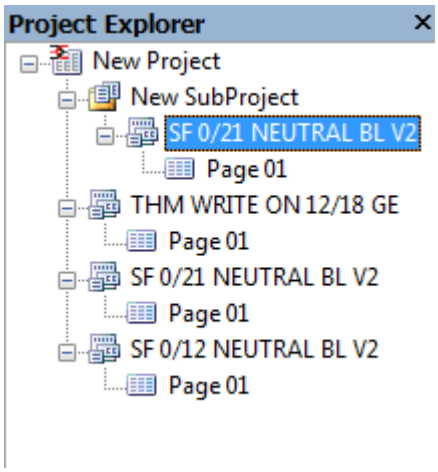
Adding a marker type to the subproject

- Click the subproject and add a new marker type via the shortcut menu (see also section "Adding a marker type to a project").

Follow these steps if you want to add an existing marker type to the subproject:

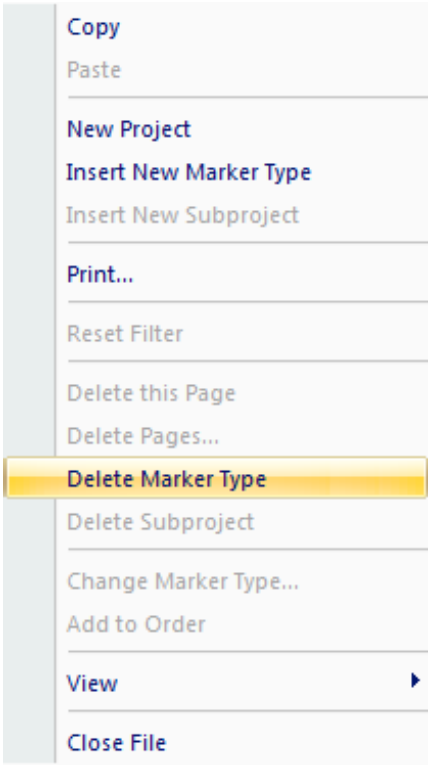
- Left-click on the marker type you want to move and hold down the mouse button.
- Keeping the mouse button pressed, drag the marker type to the subproject.

The marker type now appears in the hierarchy under the subproject.



Removing a marker type

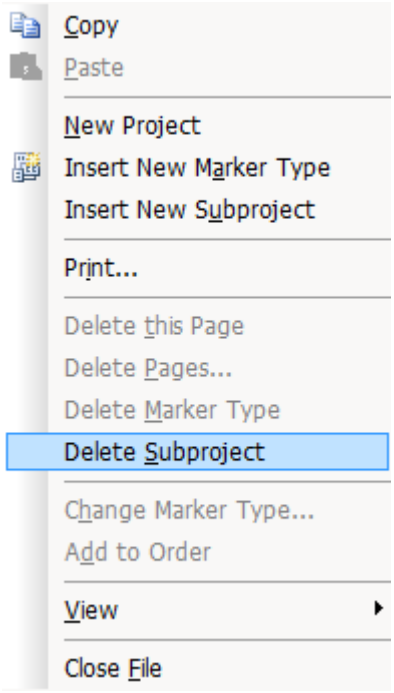
- Click on the marker type you want to remove, then press the right mouse button.



- Select **Delete Marker Type** on the shortcut menu.

Removing a subproject

- Click on the subproject you want to remove, then press the right mouse button.

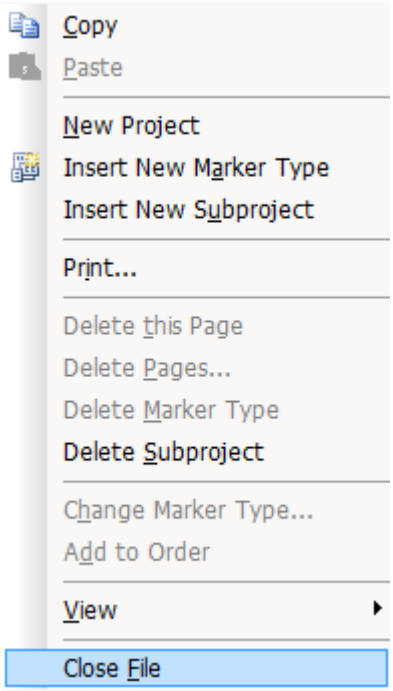


- Select "Delete Subproject" on the shortcut menu.

☝ The subproject is removed along with all its associated marker types.

Closing the project

- Right-click inside the Project Explorer.



- Select "Close File" on the shortcut menu.

If the file has not been saved, a message box appears asking whether you want to save the file or not.

Product Catalog

Introduction

The product catalog contains all the products, with variants, that are available for you to use in the application.

The "Product Catalog" window opens automatically when you start the program: There you can:

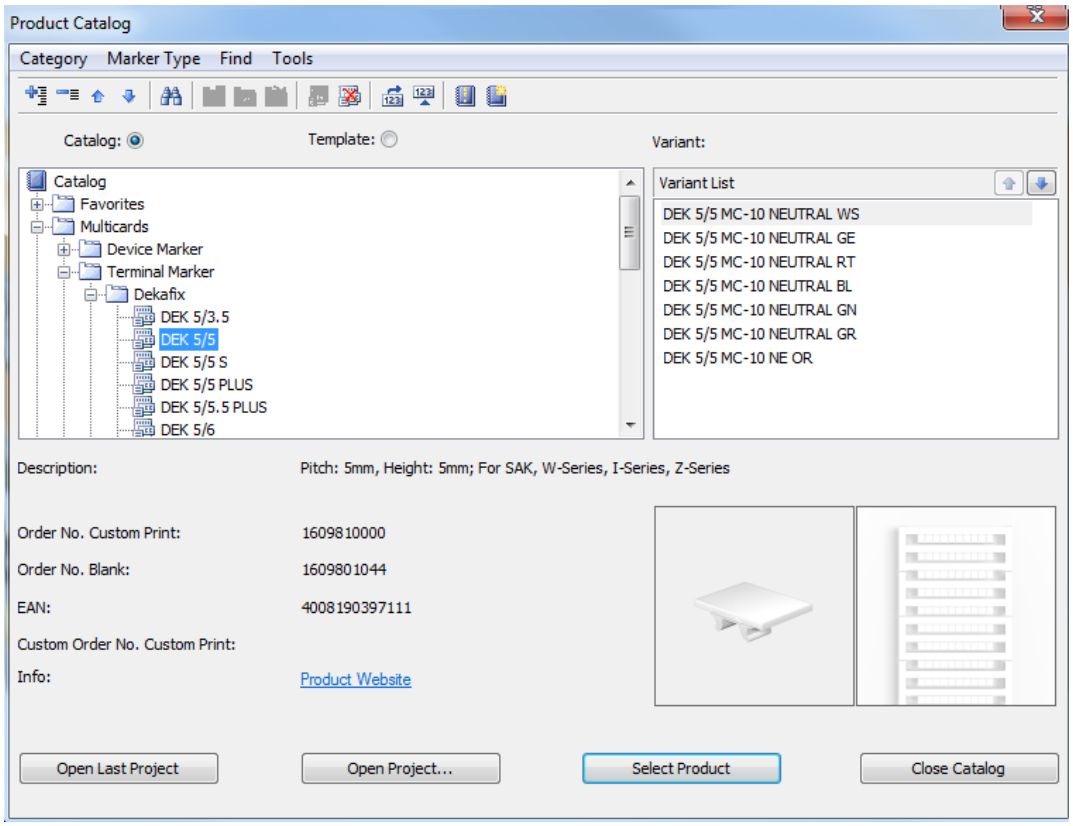
- Select a marker type
- Open the most recently edited project
- Open a particular project

The "Product Catalog" window can also be used to organize products.
For example, you can keep products in a special product category if you use them regularly. To do this, you create a new category, then add the relevant products to it.

This chapter describes how you can work with the catalog, how to find a product and how to remove products and categories.

Opening the Product Catalog window

- Open the product catalog by clicking on **Tools** > **Product Catalog.**



If the relevant information has been defined, the bottom left part of the window contains a description of the selected variant and the material number. The bottom right part of the window shows a photograph of the selected variant.

You can double-click on the photograph to open a new window with a magnified view of the product.

The product photograph may differ from the original.

If you click on **Product Website**, a product data sheet appears via the Internet. The link only appears if there is a data sheet for the product.

This window contains the following buttons:

Open Last Project	Click on this button to open the last project you worked on. This button is only available after the program start.
Open Project...	Click on this button to open a given project (see chapter "Managing projects"). This button is only available after the program start.
Select Product	This button enables you to select a particular product.
Close Catalog	Closing the product catalog.

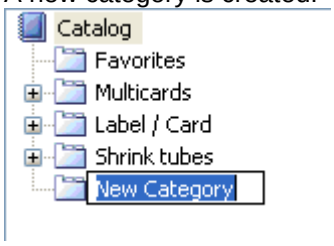
Creating a new product category

You can create your own personal product category where you can store all the markers you use regularly. Follow these steps:

- Open the product catalog (**Tools** > **Product Catalog).**
- To add a new category, click on the top level ("Catalog").

  To add a subcategory, click on the corresponding category and the subcategory will be added under it.
- Select **Category** > **New**.
-

A new category is created.



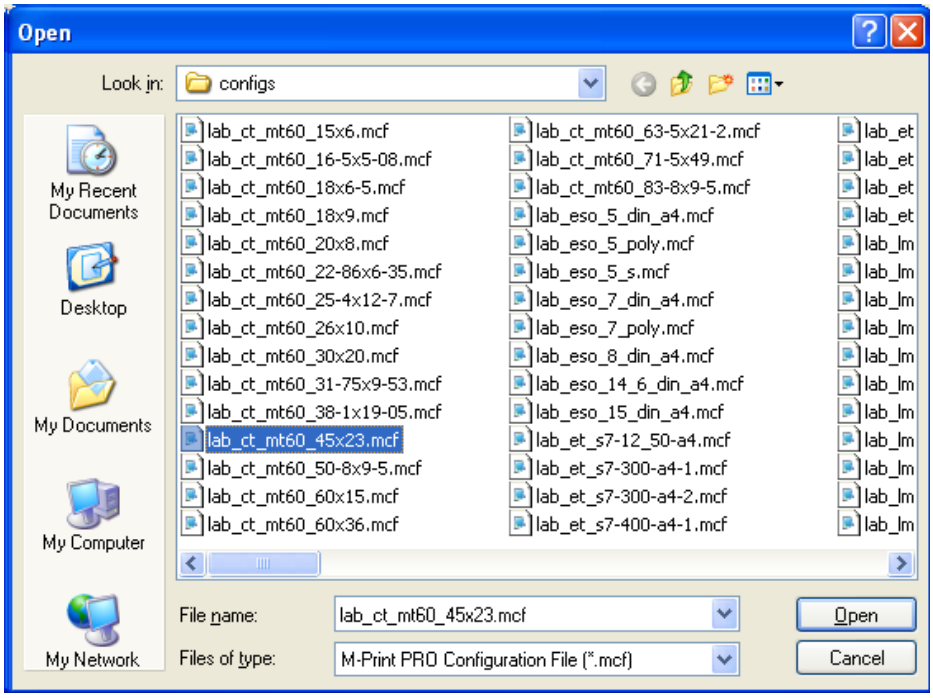
- Enter a name for the new category.

Now you can add the required products to the category (see section "Adding a product").

Adding a product

- Open the product catalog by clicking on **Tools** > **Product Catalog.**
- Click on the category to which you want to add a product.
- Select **Marker type** > **Add**.

The following window appears:



The window shows all products that are available in the application and that have been saved in a dedicated folder.

- Select the product you want to add and click on the **Open** button.
  The selected product is added to the category.
- Exit the product catalog by clicking on the **Close Catalog** button.

The catalog is saved automatically.

Removing a product

- Select the product you want to remove by clicking on it.
- On the menu bar of the "Product Catalog" window, click on **Marker Type** > **Remove**.
- The product is removed from the catalog after a confirmation prompt.

The product has ONLY been removed from the catalog.
It is not deleted from the application folder and can be re-added at any time.

Removing all products from a category

- Click on the category from which you want to remove all products.
- Select **Category > Empty**.
- The category is cleared after a confirmation prompt.

The products are removed from this category ONLY.
They are not deleted from the application folder and can be re-added at any time.

Removing a product category

- Click on the category and select **Category** > **Remove**.
- The category is removed after a confirmation prompt.

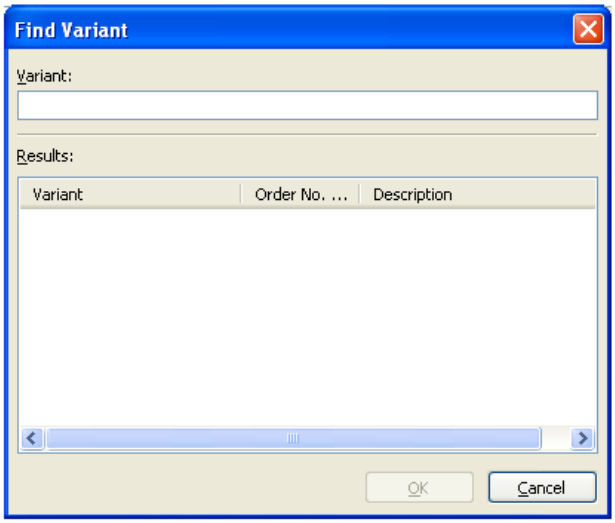
Finding a product

You can use the product search function if you want to select a new marker type without knowing the exact name or material number.

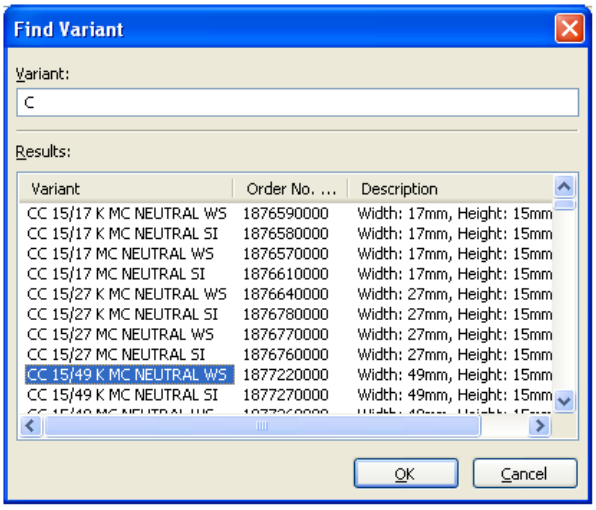
The search function cannot be used to add a product to the catalog (see "Adding a product").

- Open the product catalog by clicking on **Tools** > **Product Catalog.**
- Select **Find**.

The "Find Variant" window appears:



- Enter the product name in the "Variant" field.
  After entering at least two characters, all products with the searched characters are shown in the results list.


Find Variant
Variant:
C
Results:
Variant
Order No. ...
Description
CC 15/17 K MC NEUTRAL WS 1876590000 Width: 17mm, Height: 15mm
CC 15/17 K MC NEUTRAL SI 1876580000 Width: 17mm, Height: 15mm
CC 15/17 MC NEUTRAL WS 1876570000 Width: 17mm, Height: 15mm
CC 15/17 MC NEUTRAL SI 1876610000 Width: 17mm, Height: 15mm
CC 15/27 K MC NEUTRAL WS 1876640000 Width: 27mm, Height: 15mm
CC 15/27 K MC NEUTRAL SI 1876780000 Width: 27mm, Height: 15mm
CC 15/27 MC NEUTRAL WS 1876770000 Width: 27mm, Height: 15mm
CC 15/27 MC NEUTRAL SI 1876760000 Width: 27mm, Height: 15mm
CC 15/49 K MC NEUTRAL WS 1877220000 Width: 49mm, Height: 15mm
CC 15/49 K MC NEUTRAL SI 1877270000 Width: 49mm, Height: 15mm
OK
Cancel

- Click on the product you are looking for to select it, then confirm your choice with **OK**.

Renaming a product

To give the products in the catalog another name (e.g. a company-internal name), you can rename the title and/or the variant name of a product.

The changed variant names are, for example, displayed:
- In the properties (see chapter "Marker properties", section "General").
- In the print dialog (see chapter "Calling up the print dialog").

Follow these steps to rename a variant:

- Open the product catalog by clicking on **Tools** > **Product Catalog.**
- Select the marker type.
- Highlight the title or the variant name and press the "F2" key.
- Specify a new name and accept the entry with the Return key.
- The name is changed after a confirmation prompt.

Templates

Templates are adjusted and saved marker types.
Templates can be saved as project templates (like marker types) and can also be used like them in many areas (e.g. import).

Further elements (e.g. text fields, image and barcode fields) can, for example, be added to a marker type, and this setting can be saved as a template *.mpt.

Note the following template properties:

- Templates consist of only ONE marker type
- Templates consist of only ONE page
- Saving templates
- Open a marker type and make your settings.
- Select File > Save As....
- As the file type, select "M-Print® PRO Template (*.mpt)".
- Save the file in the defined default directory for templates (see chapter "Options", section "Directory") so that it is automatically shown in the product catalog.

If you want to set further elements on the templates, note the following:

- Use document-individual fields or document fields if possible (see chapter "Properties window").
- If you adjust individual properties (colors, emphasis) of elements, set them "as default".

Resetting the product catalog

If you have accidentally deleted configurations from the product catalog or imported a new catalog file (*.mca), you can reset the product catalog.

All the directories – except the "Favorites" folder – are then reset to the delivery state. The content of the "Favorites" folder and the templates is preserved.

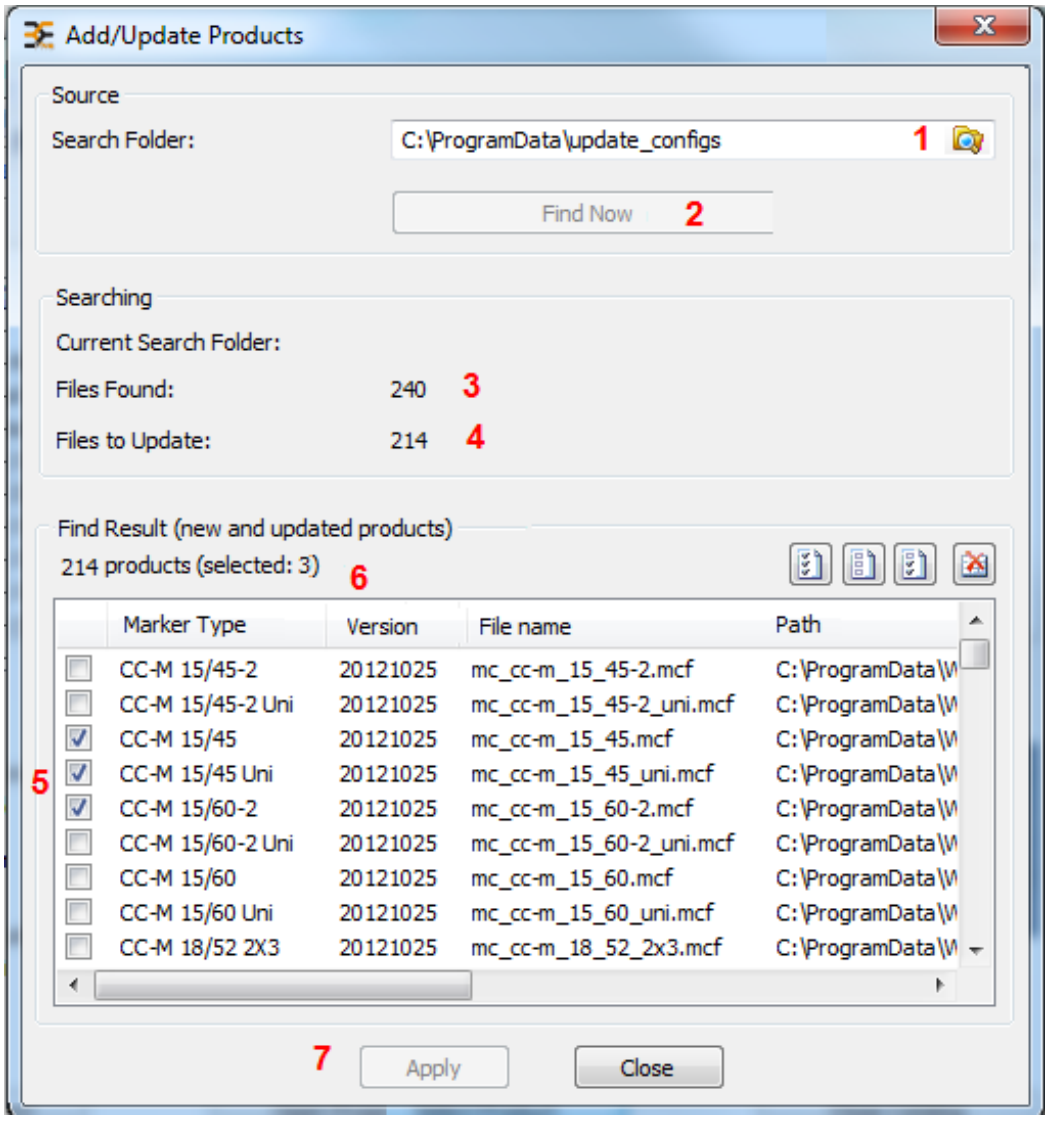
- Open the product catalog by clicking on **Tools** > **Product Catalog.**
- Select **Extras > Reset Catalog.**
- Acknowledge the confirmation prompt.

Updating the product catalog

You can update the product catalog via new or revised configuration files.
Follow these steps:

- Open the product catalog by clicking on **Tools** > **Product Catalog…**
- Select **Tools > Add/Update Products…**

The configuration search window appears:



Follow these steps:

1 **Search folder**
Select the folder that you want to search for new configuration files.

2 **Find Now**

To search for new configuration files, click on "Find Now" in the selected directory.

3 **Files found**
The number of files found during the search run.

4 **Files to update**
The number of new or more recent files.

5 **Select products**
Select the required configurations.

6 **Number of files selected**
The number of files selected is displayed.

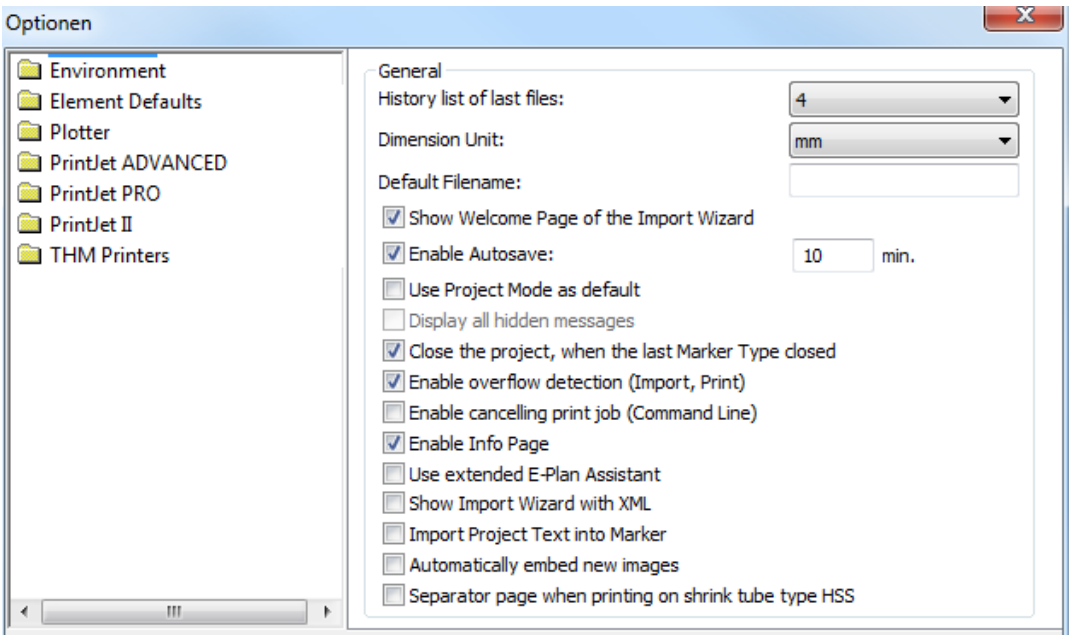
7 **Apply**
Click on "Apply" to copy the configuration files to your product catalog.

Options dialog

Introduction

This chapter explains the basic settings that can be set via the options dialog.

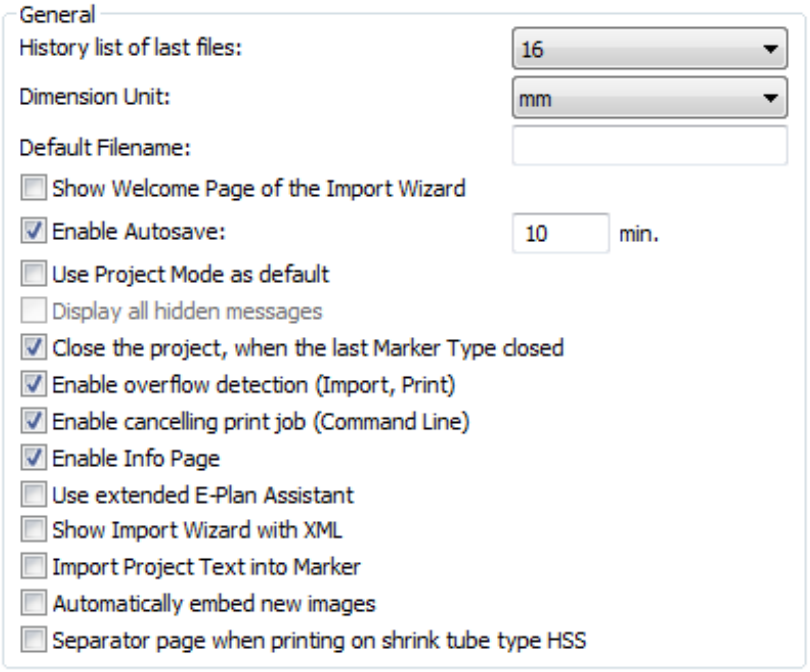
- To open the options dialog, select **Tools** > **Options…**. .



Environment

The environmental settings define the view and the general basic settings.

General



History list of last files
The list of the most recently opened project files is displayed in the **File** menu and on the start page.

Dimension unit
The unit of measure used in the entire program (inch, mm, cm, µm) is assigned here.

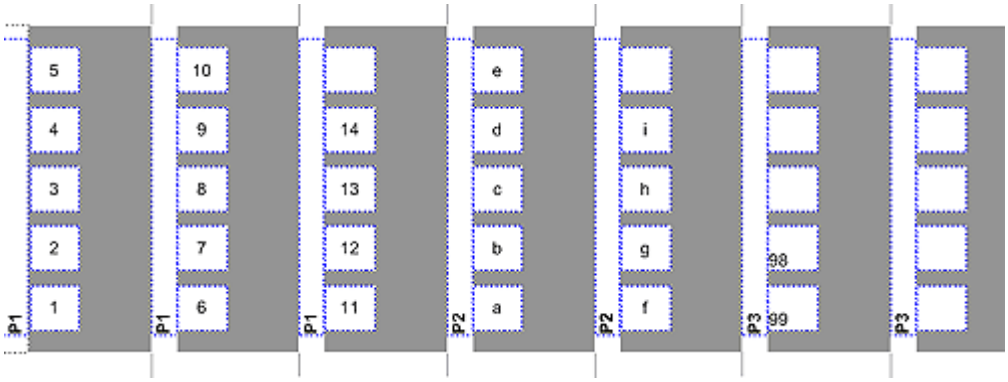
Default file name
The default file name that is suggested in the "Save" and "Save As" functions.

Show welcome page of the Import Wizard

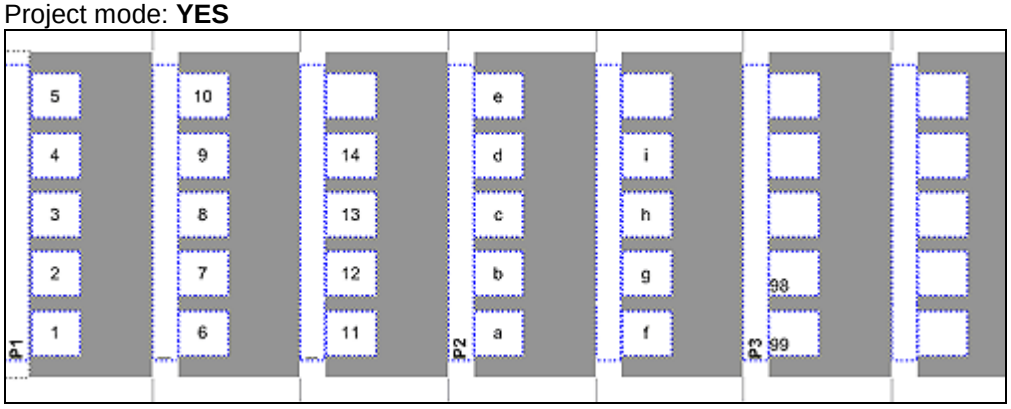
Enable autosave
The file is saved automatically at the selected interval.

Use project mode as default
Project mode can only be used for marker types with a project layer.
If there are identically captioned project markers in project mode, only the first of them are captioned.

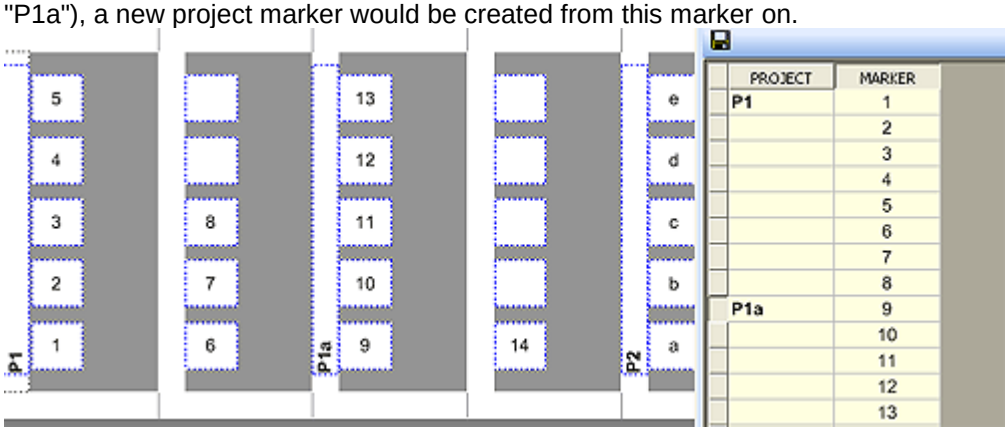
Project mode: **NO**



Project mode: **YES**



If you were to insert (e.g. via the data grid) a different project marker caption (e.g. "P1a"), a new project marker would be created from this marker on.



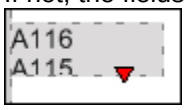
Display all hidden messages
Some dialogs can be hidden using a “Do not ask again” or “Do not show this dialog again” check box.

- Check here and click **Accept** if you want ALL dialogs to be displayed again.

Close project when the last marker type is closed
If the box is checked, the project is closed once the last tab (see "User interface") is closed.
Otherwise, you can reopen the tabs via the project tree.

Enable overflow detection (import, print)
If the box is checked, the program automatically checks whether all characters of a

field are shown after an import or before printing.
If not, the fields are shown as follows (see also "Adjusting the font size"):



Enable canceling print job (command line)
If the box is checked, the print job can be canceled – when printing a file via the command line (see "Command line call") – via a dialog.

Enable info page
Besides the page numbers, an info page on the layout of the marker type is shown.

Use extended E-Plan Assistant
If the box is checked, the Import Wizard also shows the page with the delimiters when importing WEx files.
The delimiters are set as a default in the WEx files and should not be modified.

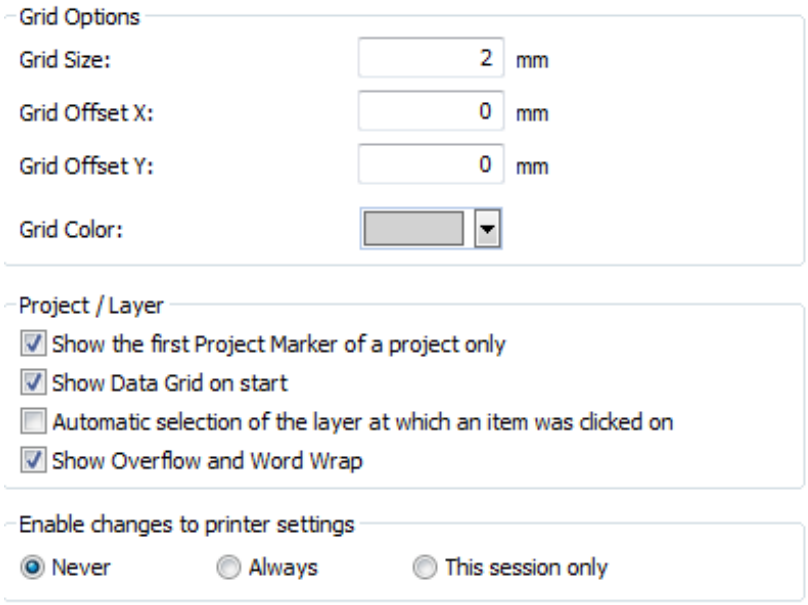
Show Import Wizard with XML
XML files can either be imported or be opened via the command line (see chapter "Command line call").
If you select this check box, the Import Wizard appears on opening via the command line; otherwise the import is controlled via the default settings or via a script file (see chapter "Importing files").

Import Project Text into Marker
If the box is checked, texts that are inserted in the project layer are inserted in the marker areas instead.

Automatically embed new images
When inserting a new image element, the image is automatically embedded and not linked via a path.
When program files are passed on, all source images are available automatically.
To remove embedded images from a file later, see chapter "Transferring an image from a file".

Separator page when printing on shrink tube type HSS
Automatically inserts a (blank) separator page when there are multiple print jobs for shrink tubes of type HSS.

View



Grid settings
The settings for the grid (see chapter "View menu").

Show the first project marker of a project only
If the project marker content is the same, only the first project marker is shown.

Show data grid on start
The data grid is always shown when the program is started.

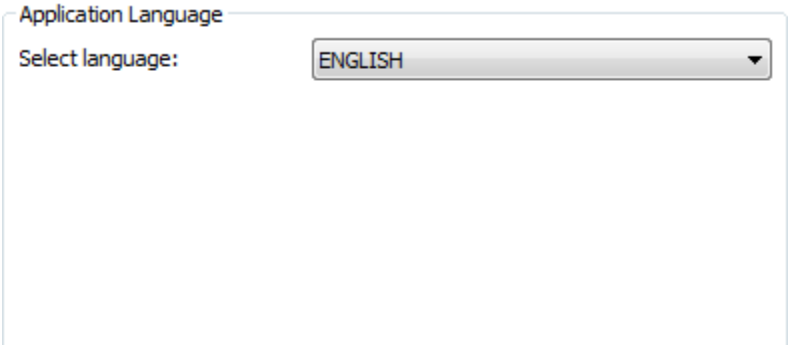
Automatic selection of the layer at which an item was clicked on
If the box is checked, you can automatically switch between the project and the marker layer with a mouse click.
Otherwise it is necessary to switch via the "Standard" toolbar (see chapter "Toolbars").

Show overflow and word wrap
Fields whose content cannot be shown completely or include an automatic word wrap are indicated as follows (see chapter "step 3: Captioning the marker"):

Enable changes to printer settings
Defines whether the “Settings...” button can be chosen in the print dialog (see chapter “Printing”, section “Calling up the print dialog”).

Application language

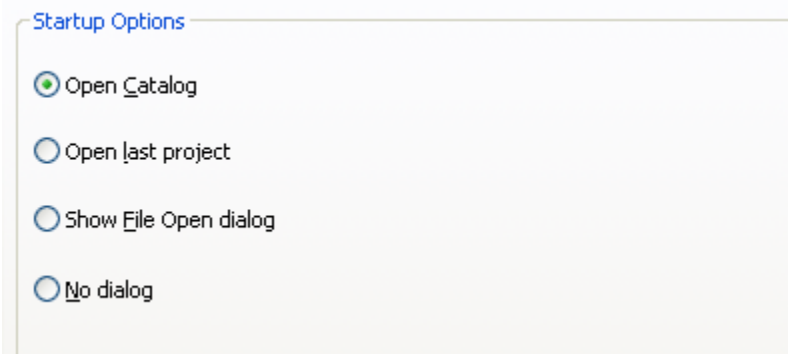
Switches the application language.
When the MUI setup (multilingual user interface) has been installed, you can choose a different application language via this selection box.



If no other language is offered in this selection box, additional language packs must be installed via the setup.

Program startup

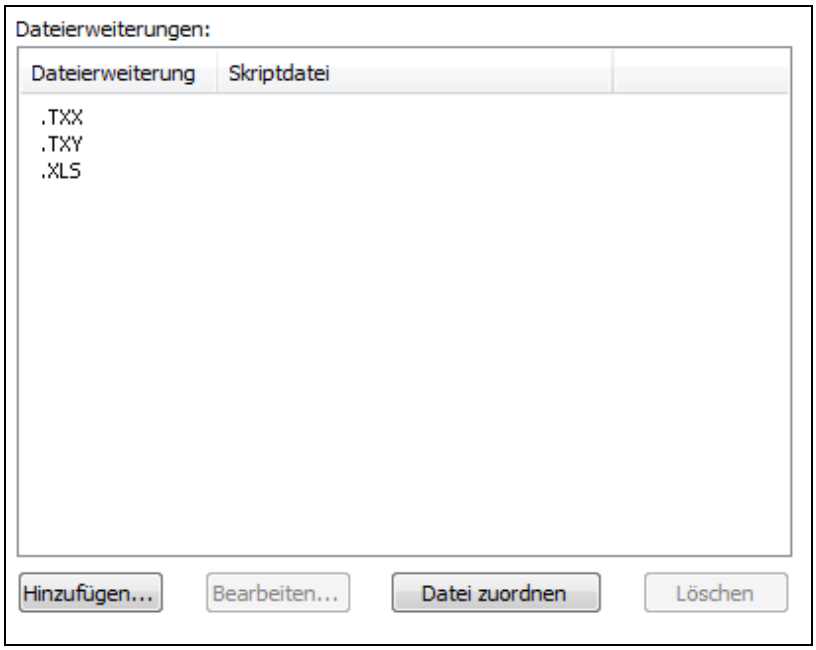
Here you control the behavior at program startup.



File extensions

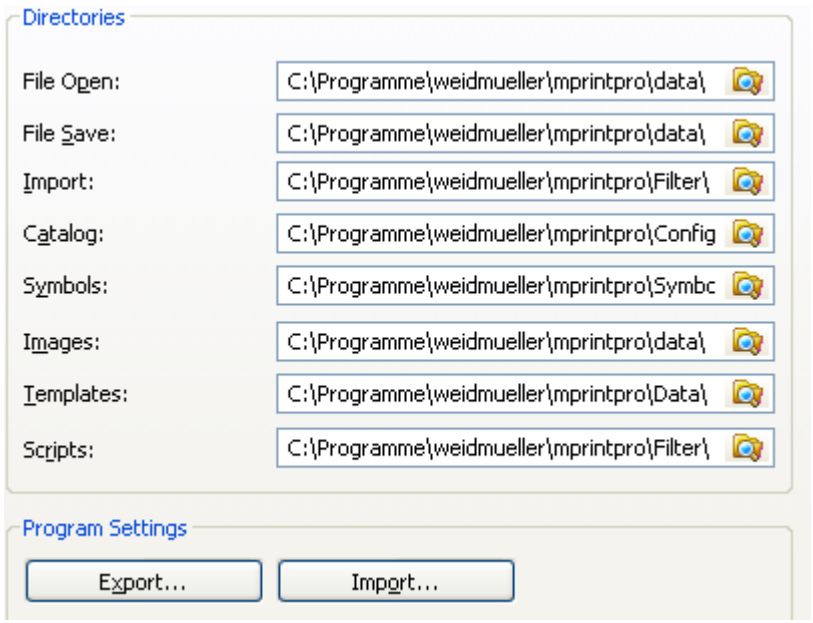
Here you can link different file extensions to a script file.

When the program opens the file (e.g. via the command line), the script file is automatically run.



Associating files
Files can be opened automatically by the program if they are double-clicked. For this, it is necessary to add the file extension (for example ".xls") to the list and to click on the "Associate Files" button.
All file extensions in the list are now registered with the program.

Directory



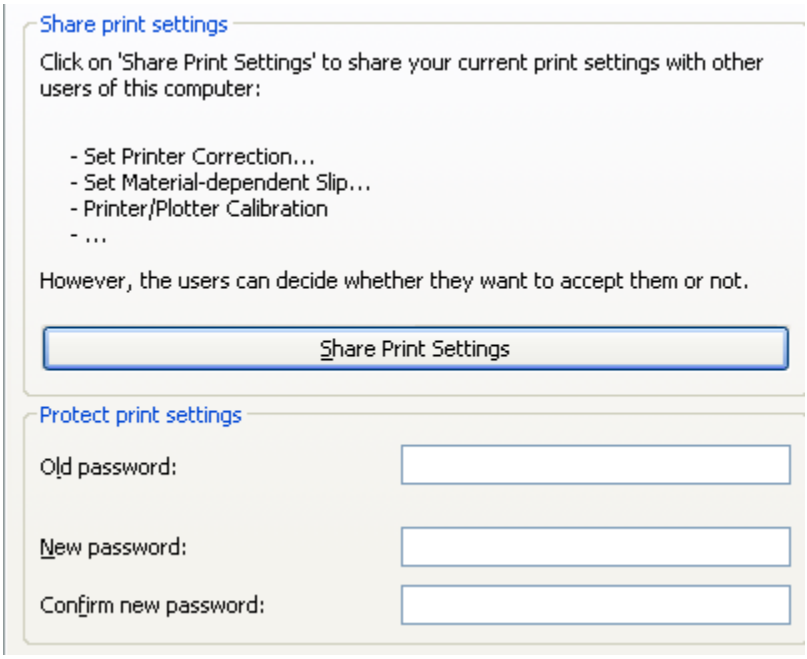
Directories
The displayed areas are preset and browsed through in the saved directories.

Program settings

Modified program settings can be saved (exported) and/or loaded (imported). Company-internal settings can, for example, be adjusted once and be loaded on other computers.

Program settings that can be stored are, for example:
- Update settings
- Grid offset for duplication (see "View")
- Consecutive numbering (last dialog values)
- File extensions
- Import Wizard (last dialog values)
- Mapped printers for marker types (see "Mapping a printer to a marker type")
- Adjusted default values for marker types
- Adjusted printer settings (e.g. printer correction, material slip, marker type settings)

Administration


Share print settings
Click on 'Share Print Settings' to share your current print settings with other users of this computer:
- Set Printer Correction...
- Set Material-dependent Slip...
- Printer/Plotter Calibration
- ...
However, the users can decide whether they want to accept them or not.
Share Print Settings
Protect print settings
Old password:
New password:
Confirm new password:

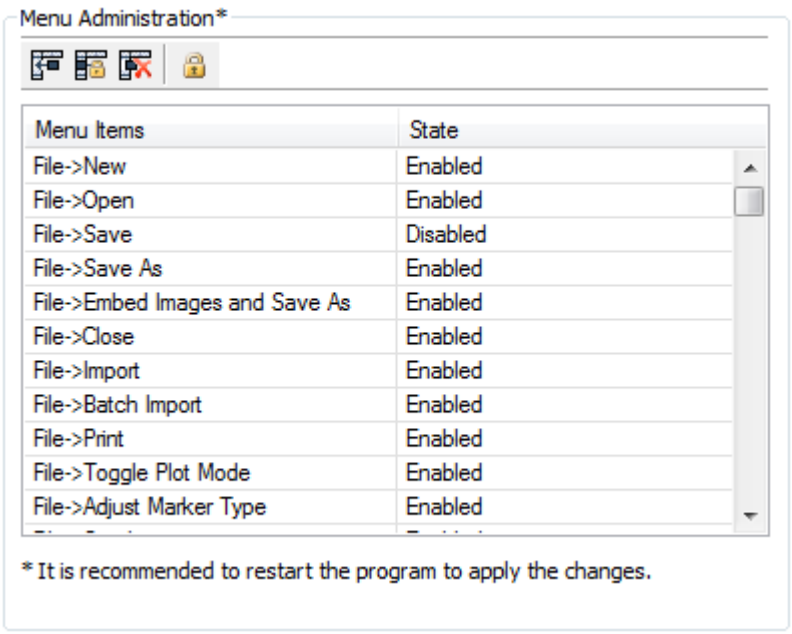
Share print settings
See descriptive text in the dialog.

Protect print settings
You can store a password to protect the adjusted printer settings against modifications. This password is requested before any modification of the printer values.

After installation, there is NO password.

Administration menu

Individual menu items can be hidden or password-protected.



Set all enabled
All the menu items are displayed and can be opened.

Set all protected
All the menu items are displayed, but can only be opened after entering a password.

Set all disabled
Not all the menu items are displayed and not all the menu items can be opened.

Set password
Opens a dialog for setting or changing a password.
After installation, there is NO password.

Note: If you set password protection for individual menu items, you should also protect the menu item "Settings -> Options" to ensure that the password cannot be reset without permission.

Reset password

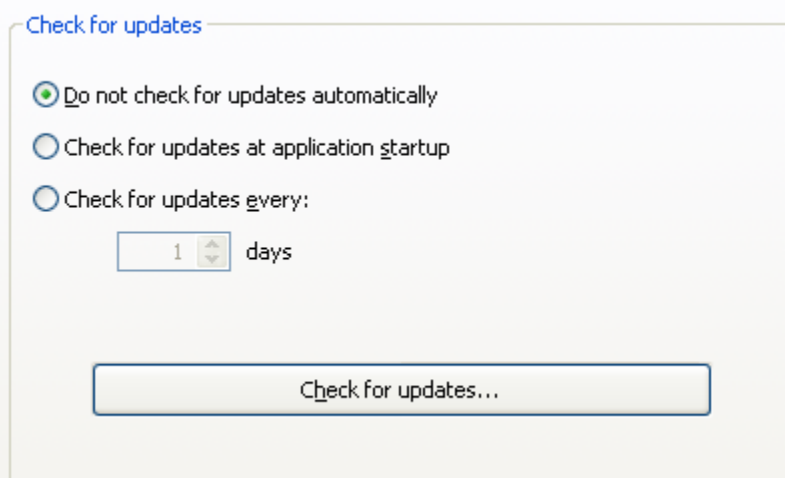
Click on , enter the existing password and leave the fields for the new password empty. Click on OK to accept the entry.

State

Enabled:	The menu item is displayed
Disabled:	The menu item is not displayed
Protected:	The menu item is displayed, but only opens after entering a password

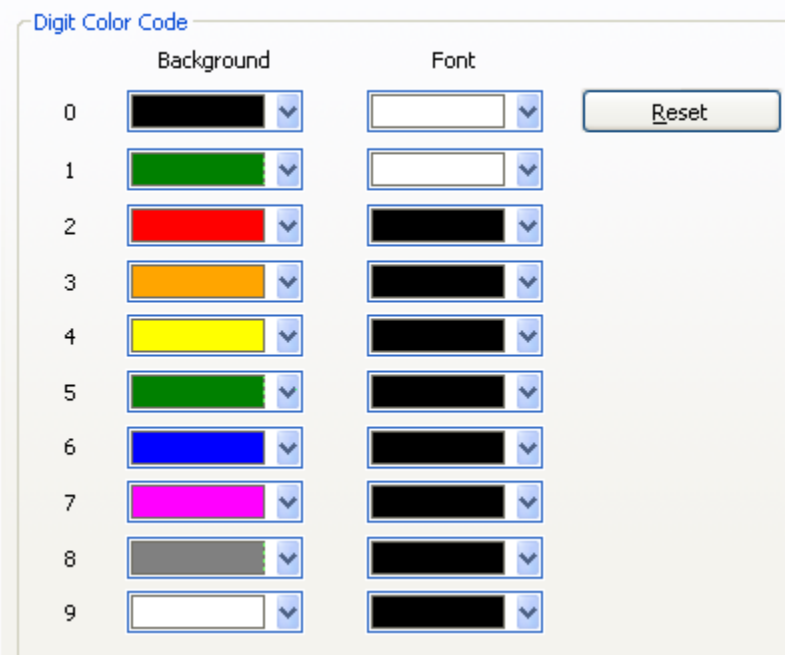
Update

Defining update settings.



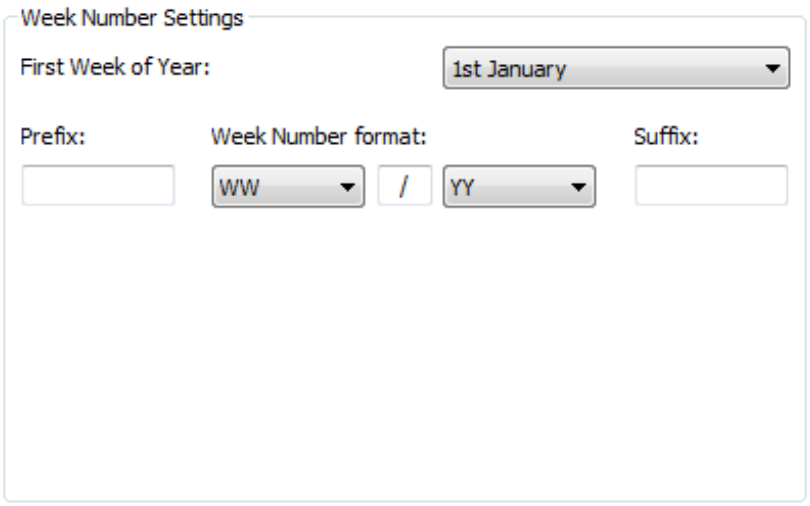
Color coding

Defining color codings for the numbers 0 to 9 (see also "Color coding").



Fields

Defining various field settings, e.g. calendar week.



Basic settings

Defining various basic settings.

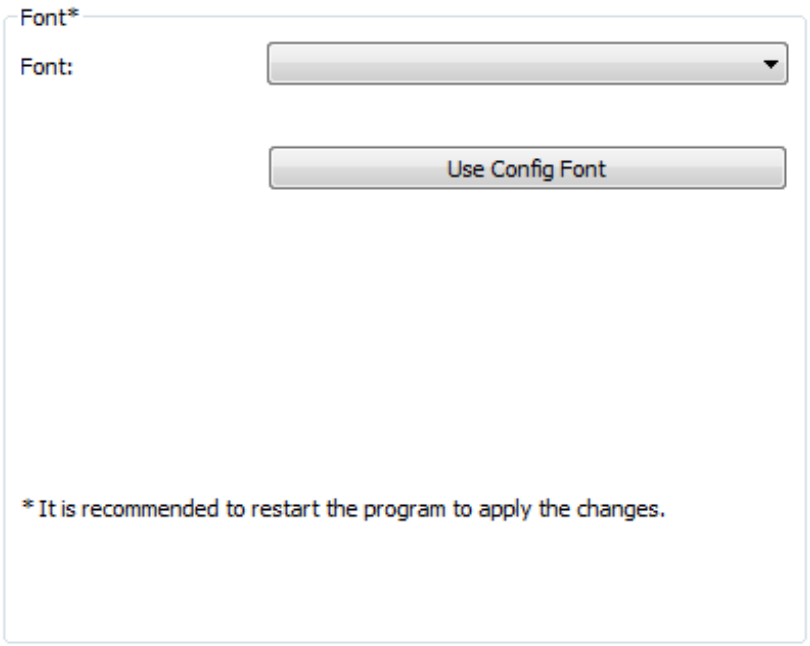
Duplicate
The offset dimensions of the duplicated object (see chapter "Edit menu").

Increment value / Decrement value
Sets the default values for incrementing or decrementing (see chapter "Incrementing and decrementing").

Element defaults

Certain properties for creating elements (e.g. text field, rectangle, image, barcode) can be defined via the element defaults. These settings are saved locally on the PC.

Font

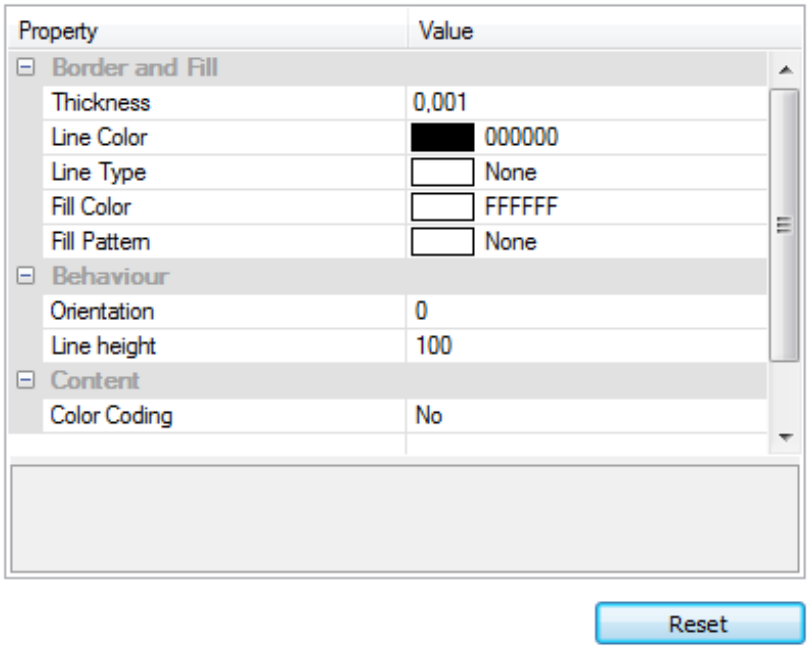


Font:
Here you select a font to be used as the preferred font when new marker types are inserted in a project. This means that the fonts stored in the configuration files are not used.
This setting is only applied when the program has been restarted.

Use config font
Resets the font that was selected via "Font".
Afterward the respective fonts of the added marker types are used.
This setting is only applied when the program has been restarted.

Elements

For the various elements (e.g. text field, rectangle, image, barcode) there are varying properties whose default properties can be changed.
These are usually properties such as the line thickness or line and fill properties.



Once accepted, changes to the default properties are valid for any new elements. A reboot is not necessary.

Reset
Resets the default property of the selected element to the delivery state.

The default properties of the elements as delivered are read from the product files of the product catalog. These product values may differ from those shown in this dialog.
Only when the values have been changed and saved via this options dialog do they take precedence in the presentation of the elements.

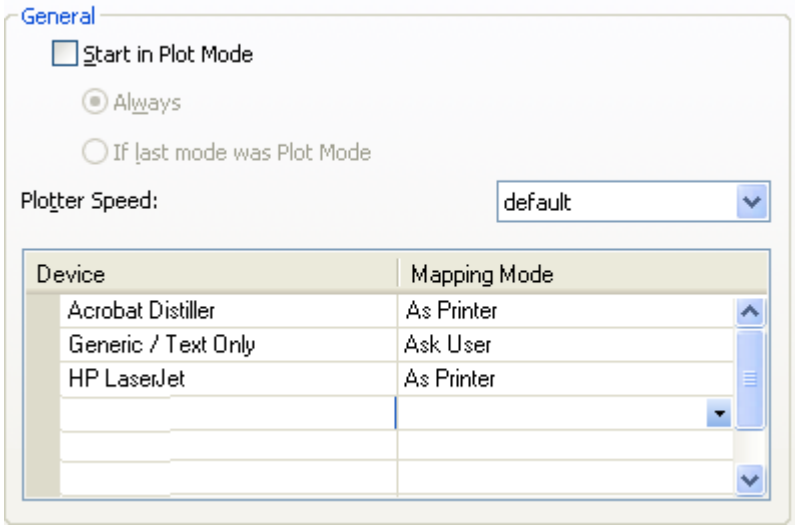
Plotter

Settings for connected plotters.

General

General settings for plot mode and the plotter speed.

In the list shown, the connected printers are mapped to the type the printer is handled as:
- As a printer
- As a plotter
- Ask user



Ask user

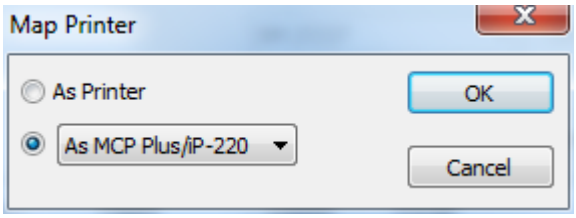
Proceed as follows if you want to change a mapping (as printer/as plotter) selected in the print dialog:

- Change the mapping for the printer directly here

or

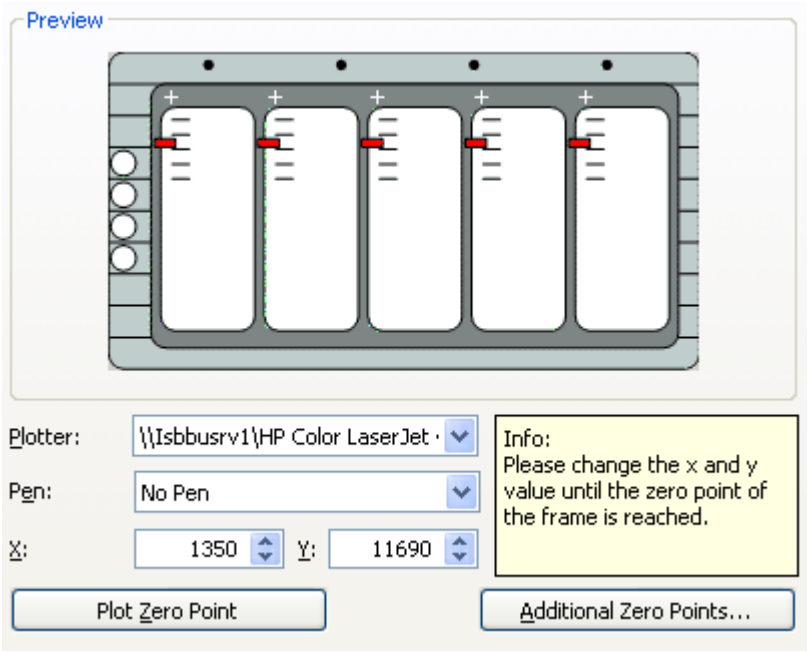
- Change the mapping for the printer to "Ask user".
- Open a marker type that you want to print.
- Select **File > Print…**.
- Select **Assign** in the print dialog.

A dialog opens for mapping.



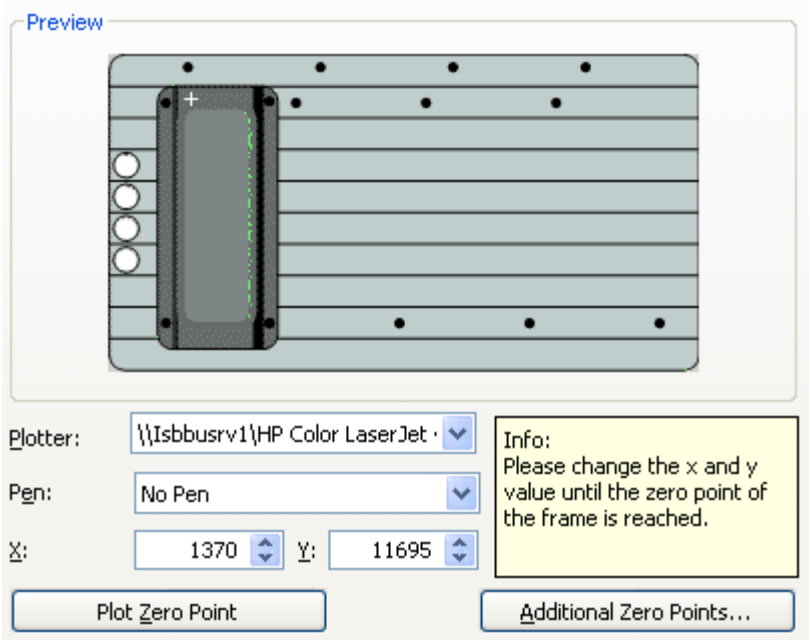
MultiCard fixture

Plotter settings for MultiCards.



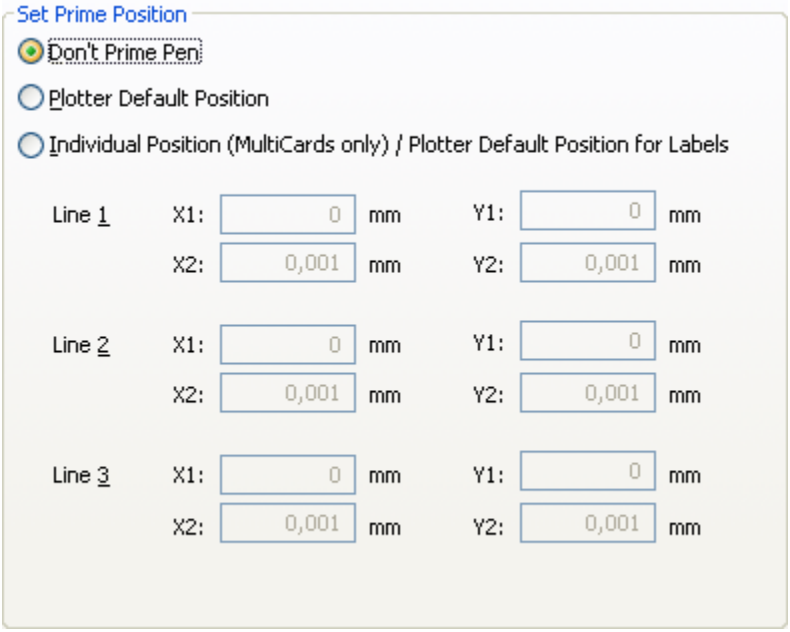
SF 4-6 fixture

Plotter settings for SlimFix fixtures to hold sizes 4 to 6.



Pen priming

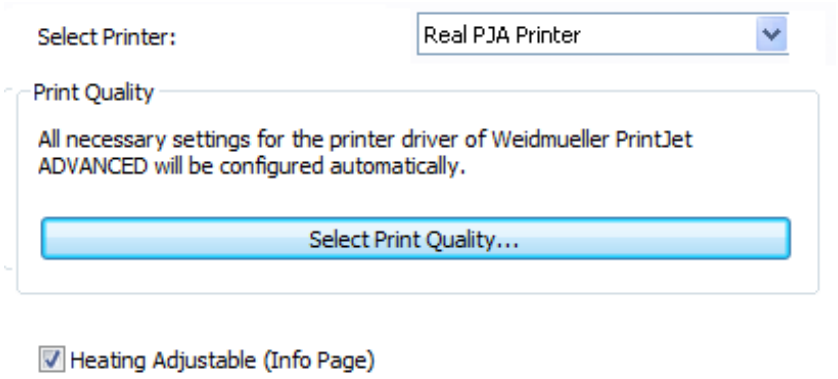
Priming options for the plotter pen.



PrintJet ADVANCED

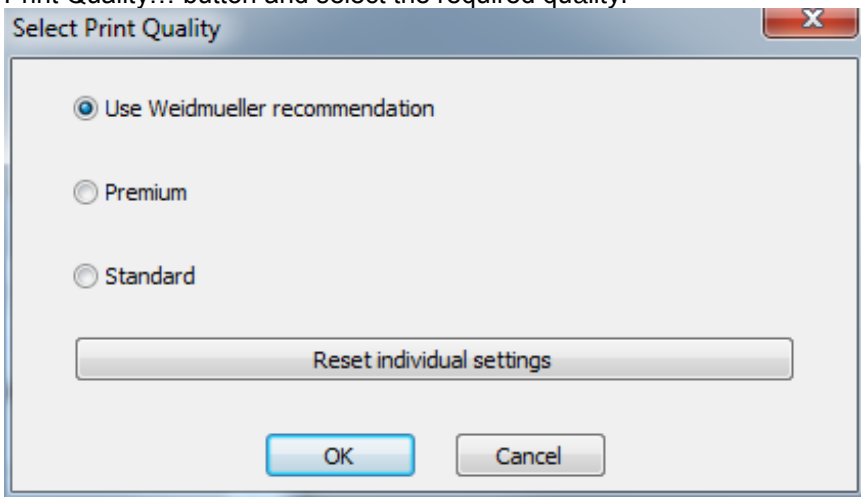
General

Setting the print options for the Print**Jet ADVANCED.**


Select Printer:
Real PJA Printer
Print Quality
All necessary settings for the printer driver of Weidmueller PrintJet ADVANCED will be configured automatically.
Select Print Quality...
Heating Adjustable (Info Page)

Select Print Quality

To adjust the print quality of the Print**Jet ADVANCED**, click in the options dialog on the Select Print Quality… button and select the required quality.



General information:

The print quality of the Print**Jet ADVANCED** can be defined in the following ways:

1. Via the product file (see "Adding a product")
   The basic settings are defined via the supplied product file (*.mcf).

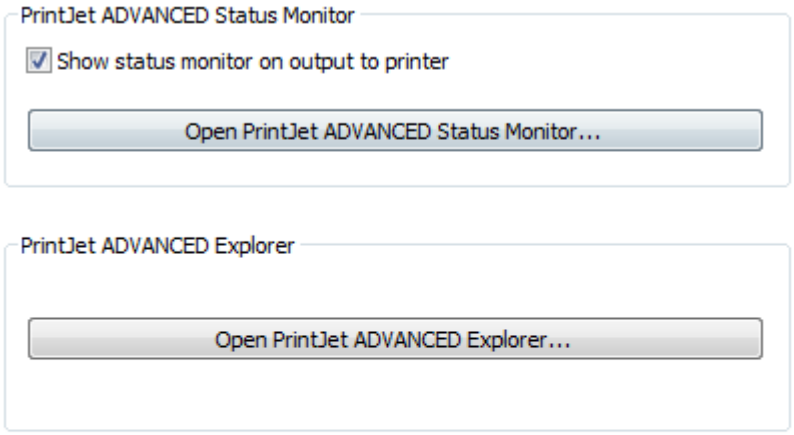
2. Via the settings in the options dialog (see "Print**Jet ADVANCED**")
   These settings apply in general to all products and override the settings from the product files.

3. Via the settings on the info page for the product (see chapter "User interface", section "Info page").
   These settings apply to a product variant and override the settings both from the product file and from the options dialog.

4. Via the adjustable heating.
   For this, set the check mark for "Heating adjustable (Info Page)" and apply the settings from the options dialog.
   Open a product and assign it to a Print**Jet ADVANCED** printer (see chapter "Printing", section "Mapping a printer to a marker type").
   Go to the info page (see chapter "User interface", section "Info page").

Service tools

Set the service tools for the Print**Jet ADVANCED**.


PrintJet ADVANCED Status Monitor
Show status monitor on output to printer
Open PrintJet ADVANCED Status Monitor...
PrintJet ADVANCED Explorer
Open PrintJet ADVANCED Explorer...

PrintJet ADVANCED Status Monitor

To start the Print**Jet ADVANCED** Status Monitor for every output on the PrintJet ADVANCED, set the check mark here.

Open PrintJet ADVANCED Status Monitor...

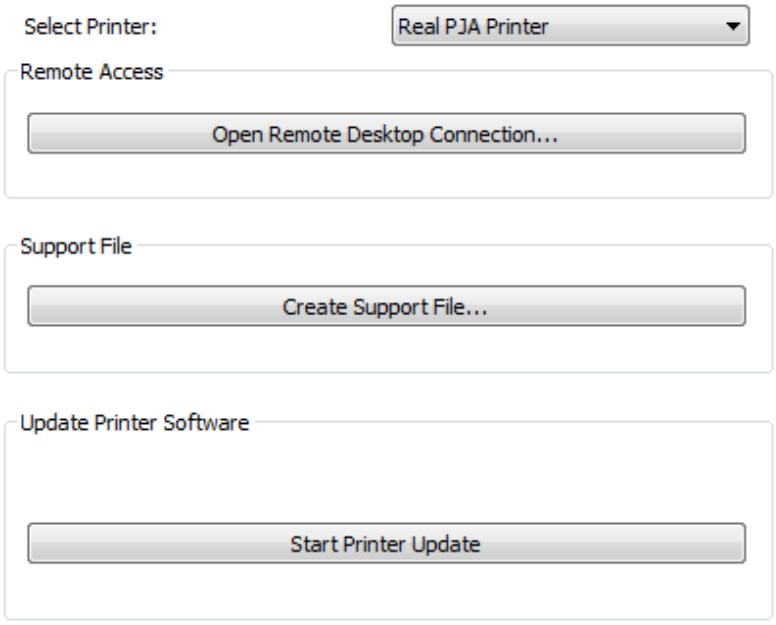
Opens the Print**Jet ADVANCED** Status Monitor if it has been installed (see also "Print**Jet ADVANCED**".

PrintJet ADVANCED Explorer

Opens the Print**Jet ADVANCED** Explorer if it has been installed (see also "Print**Jet ADVANCED** Explorer").

Administration

Administration of the Print**Jet ADVANCED**.



Remote access

Select a connected Print**Jet ADVANCED** printer and click on Open Remote Desktop Connection… to connect to the printer's computer.

Support file

The support file contains information about the installed version of the program. It helps the Support team in the event of problems.
Select a connected Print**Jet ADVANCED** printer and click on "Create Support File…" to create a support file.

Updating the printer software

To update the printer software, click on the Start Printer Update button.

PrintJet PRO

General

Setting the print options for the PrintJet PRO (see also PrintJet PRO manual).

General
Select Printer:
GelSprinter GX 3000/3050N
Properties Printerdriver
All necessary settings for the printer driver of Weidmueller PrintJet PRO will be configured automatically.
Execute Printerdriver configuration
All Printerdriver settings will be set to default.
Reset Printerdriver configuration

Cleaning

Launching the cleaning process for the PrintJet PRO.

Note that head-flushing consumes more ink than print-head cleaning.

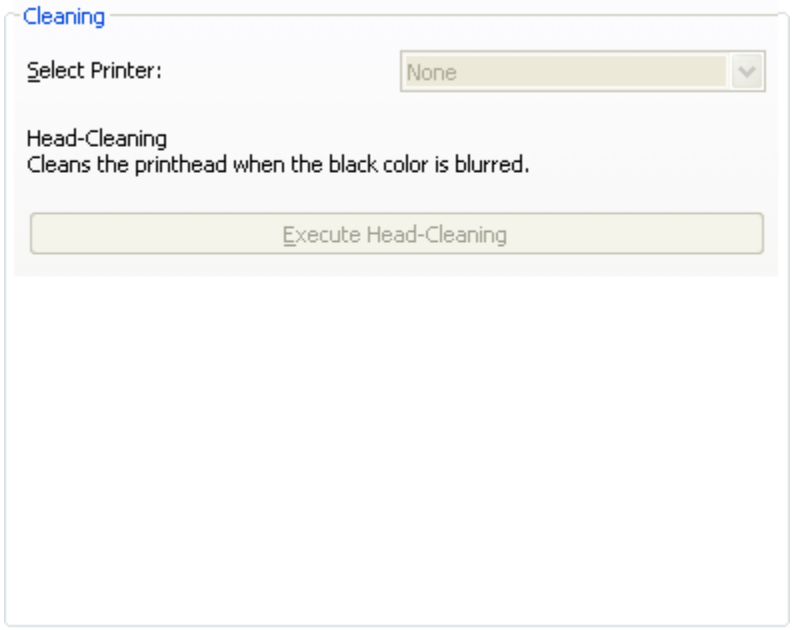
Current configuration

Display of the current printer configuration.

PrintJet II

Cleaning

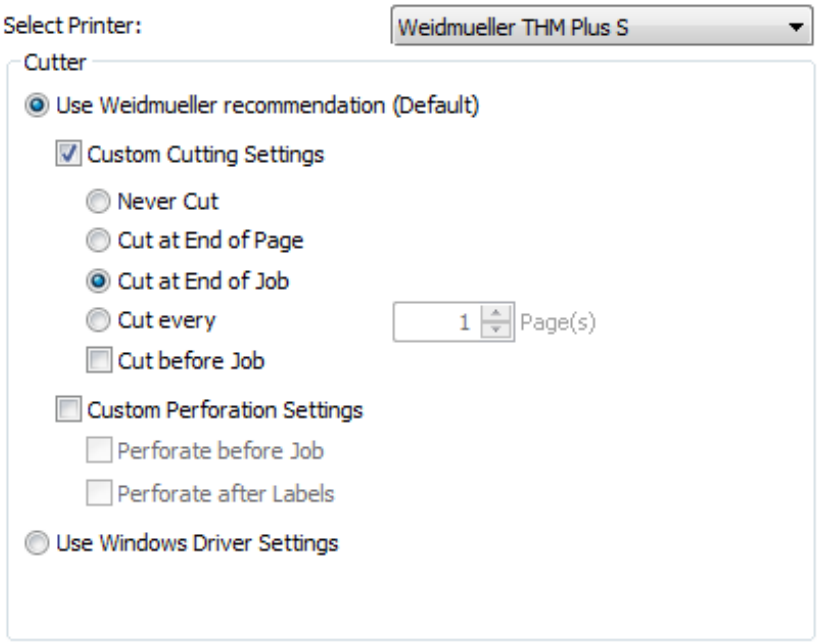
Launching the cleaning process for the PrintJet II.



THM printers

General

Setting the print options for the selected printer (THM Plus S, THM TwinMark).



Use Weidmüller recommendation (default)

The manufacturer's default settings for the material in question are used (e.g. cutting, perforation, orientation, printing speed, sensor type).
The selectable options override the manufacturer's default settings in the respective function only.

Use Windows driver settings (default)

The printer driver’s settings are used.

Some parameters can be additionally set via the info page of the material (see chapter "User interface", section "Info page").

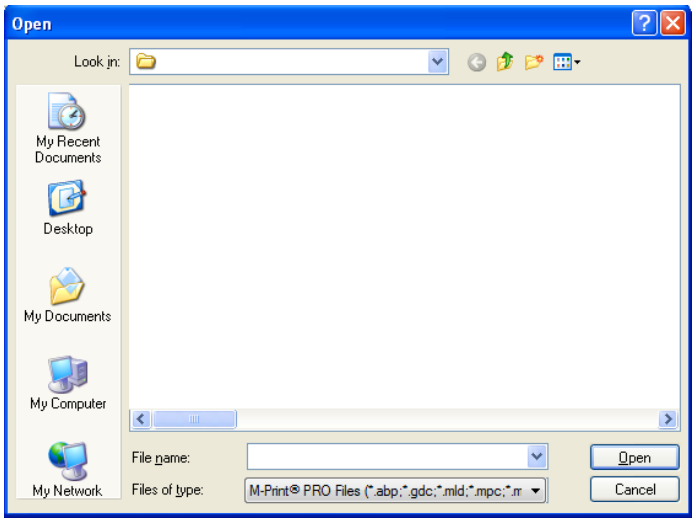
Opening other file types

Opening other file types

This chapter explains how to open a file that was not created using the program.

- Select **File** > **Open**.

The "Open" window appears, listing all existing files:



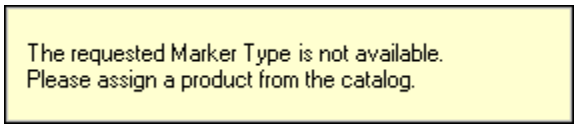
Select one of the following file types:

*.abp	M-Print document
*.gdc	M-Print document
*.mld	M-Label document
*.mpc	Content File
*.mpo	Order File
*.mpt	Template
*.rde	Raildesigner export file
*.tmf	M-Comm document
*.txx	
*.txy	
*.xls; *.xlsx	Microsoft® Excel® Worksheet
*.xmt	A multiple selection of files is possible.
*.txt	A multiple selection of files is possible.

All the available files of the selected file type are listed.

- Select the file you want to open, then click on the **Open** button.

If the marker type could not be found in the catalog, a message box appears:



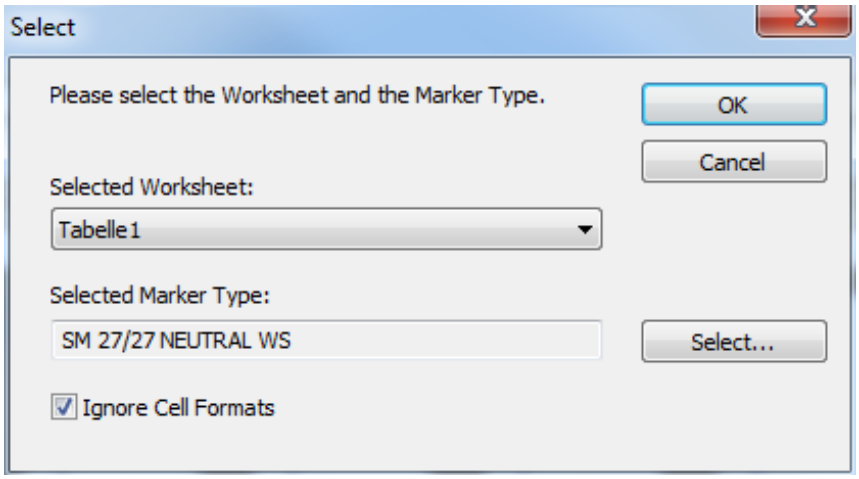
- Select the marker type and confirm by clicking on **OK**.

The data is added to the markers.

If a non-supported file type is used for a multiple selection, only the first file of the selection is opened.

Excel files

An additional dialog appears when Excel files are opened.



Here, you can choose the worksheet to be opened as well as the marker type and define whether to apply the cell formats (if supported).

The data in the Excel file is only displayed from the second row on.
Another way to display data from an Excel file consists in an import (see chapter "Importing an Excel file").

Command line call

Introduction

The program can also be started via the command line (command prompt).

You can see the call parameters by entering the path to the program file, followed by the call parameter "/?".

Call parameters for exe

Opening or printing a file

MPrintPRO.exe [-p] "file (*.gdc|*.mld|*.mpc|*.mpo|*.mpt|*.rde|*.tmf|*.txx|*.txy|*.bis)"

When the print parameter "-p" is used, the print job can be canceled via a dialog after opening the program.
If you do not want to display the dialog, see the option "Display all hidden messages" in the options dialog.

Importing or printing a file

MPrintPRO.exe "file_name" [-p] [-ImportFilter:"script_file_name (*.mis)"]
[-MatNo:material_number] [-Fallback:material_number]

MPrintPRO.exe "file_name" [-p] [-ImportFilter:CSV | WTXT | WE | VK | XML]
[-MatNo:material_number] [-Fallback:material_number]

When the print parameter "-p" is used, the print job can be canceled via a dialog after opening the program.
If you do not want to display the dialog, see the option "Display all hidden messages" in the options dialog.

Call parameters for converters

The import converter can be controlled via the command line (see chapter "Import converter").

Parameters for the QLS converter

-input:"<path_to_file>\<input_file>"
This attribute is compulsory

-output:"<path_to_file>\<output_file>"
Optional.
If output_file = input_file, then the extension ".convert" is appended to output_file.
If nothing else was entered, the name of the input file is used with the extension ".convert" added to it.

-separator:<separator>
Optional, but only 1 character,
default is the semicolon,
no white spaces
Exception TAB

-start:<start>
Optional
First import line; default is 1

-end:<end>
Optional
Last import line;
default is 0 (means until the end)

-concate:<concate>
Optional
default is 2
cannot become less than 2

-ignore
Option
if entered, blank lines are ignored

-?
Attention: If this parameter is entered, all other parameters are ignored, and only the "usage" is displayed.

Example:

1 "C:\ qlsconverter.exe" -? -> Lists all parameters

2 "C:\ qlsconverter.exe" -input:"C:\qls\testbasis_cmd.csv"

Generates the file "C:\qls\testbasis _cmd.csv.convert"

Parameters for the TNV converter

-input:"<path_to_file>\<input_file>"
This attribute is compulsory

-output:"<path_to_file>\<output_file>"
Optional.
If output_file = input_file, then the extension ".convert" is appended to output_file.
If nothing else was entered, the name of the input file is used with the extension ".convert" added to it.

-separator:<separator>
Optional, but only 1 character,
default is a semicolon
no white space (blanks)

-start:<startlineno>
Optional
First import line; default is 1

-end:<endlineno>
Optional
Last import line;
default is 0 (means until the end)

-pair1:<colno1><delimiter><colno2>
Optional
First linked column pair
Default: Column 0 and column 1 are linked with a colon
If delimiter = '|', the columns are combined WITHOUT delimiters.

-pair2:<colno1><delimiter><colno2>
Optional
Second linked column pair
Default: Column 3 and column 4 are linked with a colon
The delimiter is extracted from the "pair1" parameter; if "pair1" is not present, a colon is used as the delimiter.

To get a list of all parameters, double-click on the file "TNVConverter.exe".

Example:

1 "C:\ tnvconverter.exe" -input:"C:\tnv\testbasis_cmd.csv" -separator:“,“ -pair1:"2:5" –pair2:"3:4"

The import is based on the following parameters:

- Delimiter for source file:Comma
- Delimiter for output file: Colon
- Linked column pairs: Column 2 with column 5 and column 3 with column 4
- Creates the output file "C:\tnv\testbasis_cmd.csv.convert"

Importing files

Introduction

This chapter explains how you can import files in other formats (e.g. Microsoft® Excel®) into the program and insert the data into the marker areas.
The data can be imported into the catalog's marker types or into self-created template files (*.mpt) (see chapter "Templates").

There are various ways to import a file:

1. Manual import with the option of creating an import script file (see chapter "Manual import")

2. Automated import via a script file (see chapter "Automated import".

3. Automated import with one or more script files (batch import) (see chapter "Batch import".

4. Import controlled via the command line (command prompt) (see chapter "Command line call").

The following file formats can be imported at the moment:

*.asc
*.csv
*.mpx
*.txt
*.wbe
*.we?
*.xml
*.xls; *.xlsx

Manual import

For a manual import, the Import Wizard supports you when selecting the import parameters.

You can save them at the end of the Import Wizard to carry out automated imports with these settings (see chapter "Automated import").

Starting the import

Start the import via **File** > **Import…**
Follow the steps of the Import Wizard.

Step 1: Start page

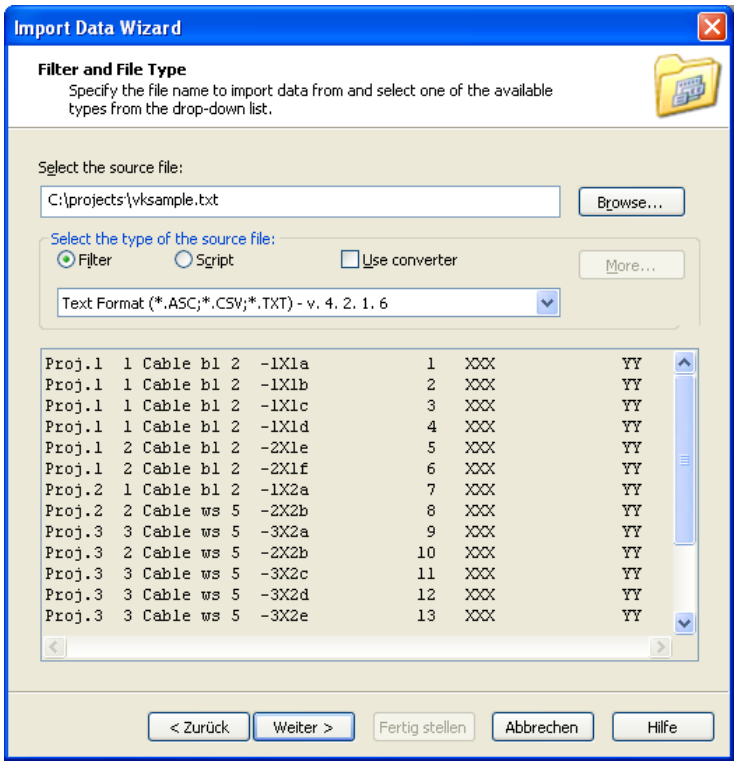
Import Data Wizard
The Import Data Wizard allows you to import data from one of the available file formats into M-Print® PRO.
Don't show again.
< Back
Next >
Finish
Cancel
Help

The start page of the Import Wizard can be hidden.
Select "Don't show again" to start directly with step 2 when you call up the wizard the next time.

You can show the start page again via the options dialog (see chapter "Options").

Step 2: Filter and import type

In step 2, you select the source file you want to import.
The filter type, the saved import routine or a converter can also be selected.


Import Data Wizard
Filter and File Type
Specify the file name to import data from and select one of the available types from the drop-down list.
Select the source file:
C:\projects\vksample.txt
Browse...
Select the type of the source file:
Filter
Script
Use converter
More...
Text Format (*.ASC;*.CSV;*.TXT) - v. 4. 2. 1. 6
Proj.1 1 Cable bl 2 -1X1a 1 XXX YY
Proj.1 1 Cable bl 2 -1X1b 2 XXX YY
Proj.1 1 Cable bl 2 -1X1c 3 XXX YY
Proj.1 1 Cable bl 2 -1X1d 4 XXX YY
Proj.1 2 Cable bl 2 -2X1e 5 XXX YY
Proj.1 2 Cable bl 2 -2X1f 6 XXX YY
Proj.2 1 Cable bl 2 -1X2a 7 XXX YY
Proj.2 2 Cable ws 5 -2X2b 8 XXX YY
Proj.3 3 Cable ws 5 -3X2a 9 XXX YY
Proj.3 2 Cable ws 5 -2X2b 10 XXX YY
Proj.3 3 Cable ws 5 -3X2c 11 XXX YY
Proj.3 3 Cable ws 5 -3X2d 12 XXX YY
Proj.3 3 Cable ws 5 -3X2e 13 XXX YY
< Zurück
Weiter >
Fertig stellen
Abbrechen
Hilfe

Selecting the source file

- Click on the **Find...** button. A window appears where you can select the file you want to import.
- Select the file you want to import and click on the **Open** button.

The path and name of the file you want to import are now shown in the "Select the source file:" field.

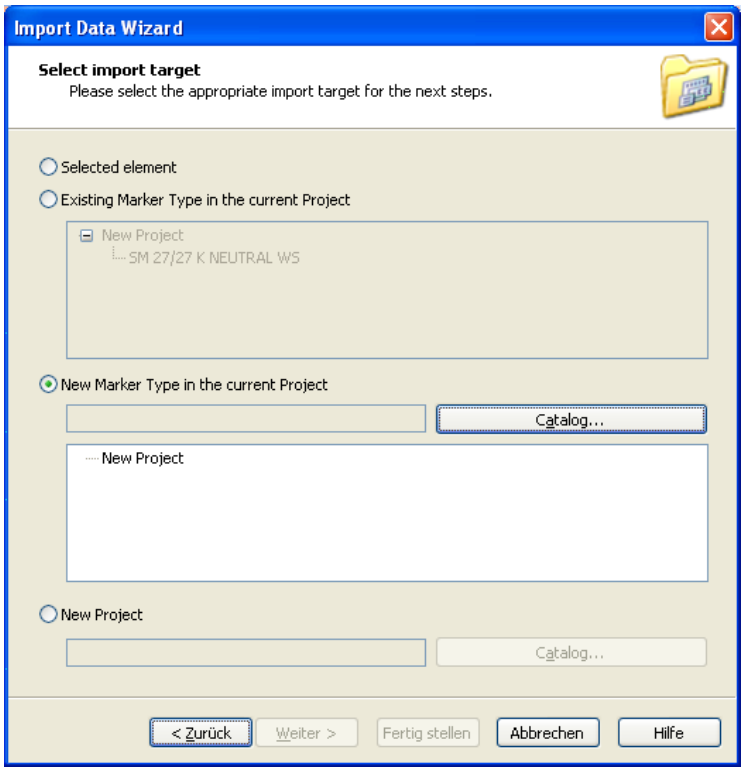
Source file type
The next step is to select the import type:

- Filter: The import is effected manually via a filter file.
  Select the filter type in the drop-down field (e. g. *.txt, *.WEI).
  The filter that matches the source file is usually shown automatically.
- Script: The import is automatic via a stored script (see chapter "Automated import")
- Use converter: A converter is used to prefilter the source file (see chapter "Converter").

Step 3: Selecting the project and variant

This step serves to select the project or the marker type used to effect the import.
There is a choice of options, depending on the initial situation:

- Selected element
- Existing marker type in current project
- New marker type in current project
- New Project



Selected element
For this option, a marker type must be opened and a marker must be selected.
The import is inserted from the selected marker on.
If no marker is selected, the data is inserted from the first marker on.

Existing marker type in current project
For this option, a marker type must be opened.
The import is effected starting with the first marker of the selected marker type.

New marker type in current project

- Click on "Catalog..." to select a marker type from the catalog or from the saved templates (*.mpt).

A new marker type is added to the current project during the import.

New Project

- Click on "Catalog..." to select a marker type from the catalog or from the saved templates (*.mpt).

The import is effected into a new project with the selected marker type.

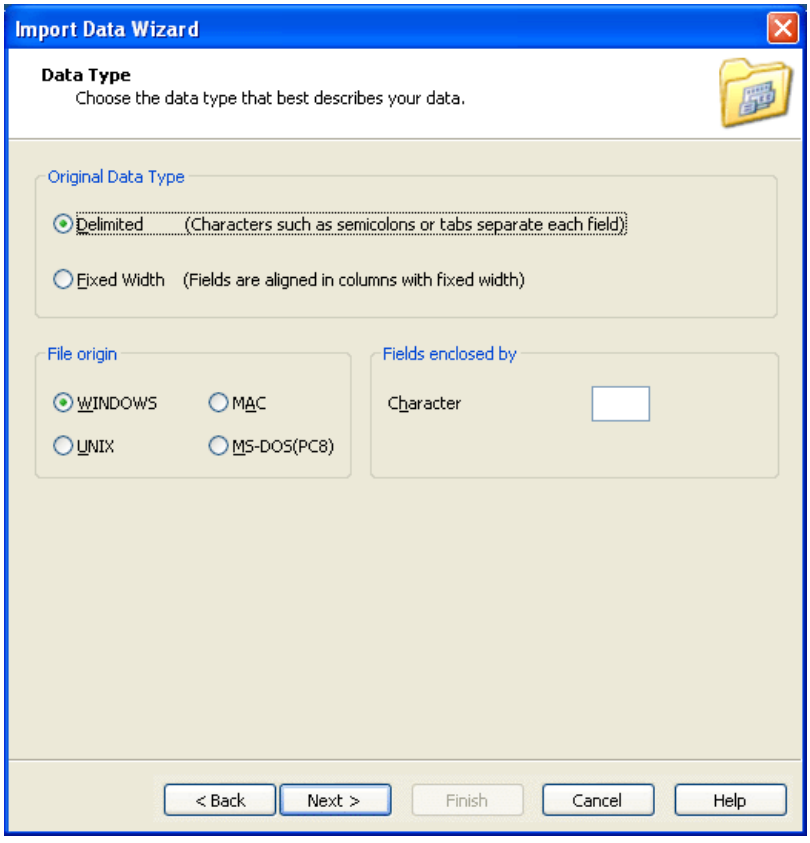
If a non-saved other project/marker type is still open, a confirmation prompt is displayed before the import starts.

Steps 4/5: Selecting the data format and field delimiter

Specify whether the columns in the source file have been defined with a delimiter (such as a semicolon or tab character) or with a fixed column width (see section"Source file with delimiter" or "Source file with fixed column width").

In addition, you can select:

- File origin
  Specify the operating system used to create the file.
- Fields enclosed by
  Text characters enclosed by the character specified here are interpreted as text. Delimiters are thus ignored (masked).



Source file with delimiter

- Select the option "Delimited..." if the source file is a file with columns that are delimited by a character, such as semicolon, tab, etc.

Example of a file with delimiter

Opened in Microsoft® Excel®:

	A	B
1	=-X1	1
2		2
3		3
4		4
5		5
6		6
7		7
8	=A1+1	L1
9		L1
10		L2
11		L2
12	=A1+2	M1:L1
13		M1:L2
14		M1:L3
15		I 1.0
16		I 1.1
17		I 1.2
18		I 1.3
19		I 1.4
20		I 1.5
21		I 1.6
22		I 1.7
23		I 2.0
24		I 2.1
25		I 2.2
26		I 2.3
27		I 2.4
28		I 2.5
29		I 2.7
30		I 3.0
31		I 3.1
32		I 3.2
33		I 3.3

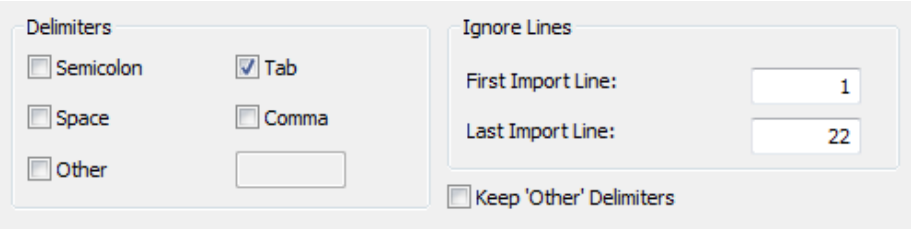
Opened in a text editor:

```
=-X1;1
;2
;3
;4
;5
;6
;7
=A1+01;L1
;L1
;L2
;L2
=A1+2;M1:L1
;M1:L2
;M1:L3
;I 1.0
;I 1.1
;I 1.2
;I 1.3
;I 1.4
;I 1.5
;I 1.6
;I 1.7
;I 2.0
;I 2.1
;I 2.2
;I 2.3
;I 2.4
;I 2.5
;I 2.7
;I 3.0
;I 3.1
;I 3.2
;I 3.3
```

The examples shown above are a two-column file in Excel® with the semicolon defined as the delimiter as shown on the right. Because there is no data before the semicolon in the second row, for example, the first column is empty.

The file on the right was saved from within Excel® in CSV format (character-separated values).

- Click on **Next** to go to the next step.



- The program suggests the characters to delimit the columns. If a different delimiter has been used, you can select it by clicking the appropriate radio button.
- If you click the **Other** radio button, you can select another delimiter in the field next to this.
- To use different delimiters on an additive basis, enter them in the **Other** field and enable the "**Keep 'other' delimiters**" option.
  This option is only available if the csv, VK, or WES filter was selected in step 2.
- A new column starts at the points at which there is a delimiter.
- Define the first and last import lines.

Unfortunately, the semicolon, tab, space and comma cannot be retained as the delimiter with the option "**Keep 'other' Delimiters" !**

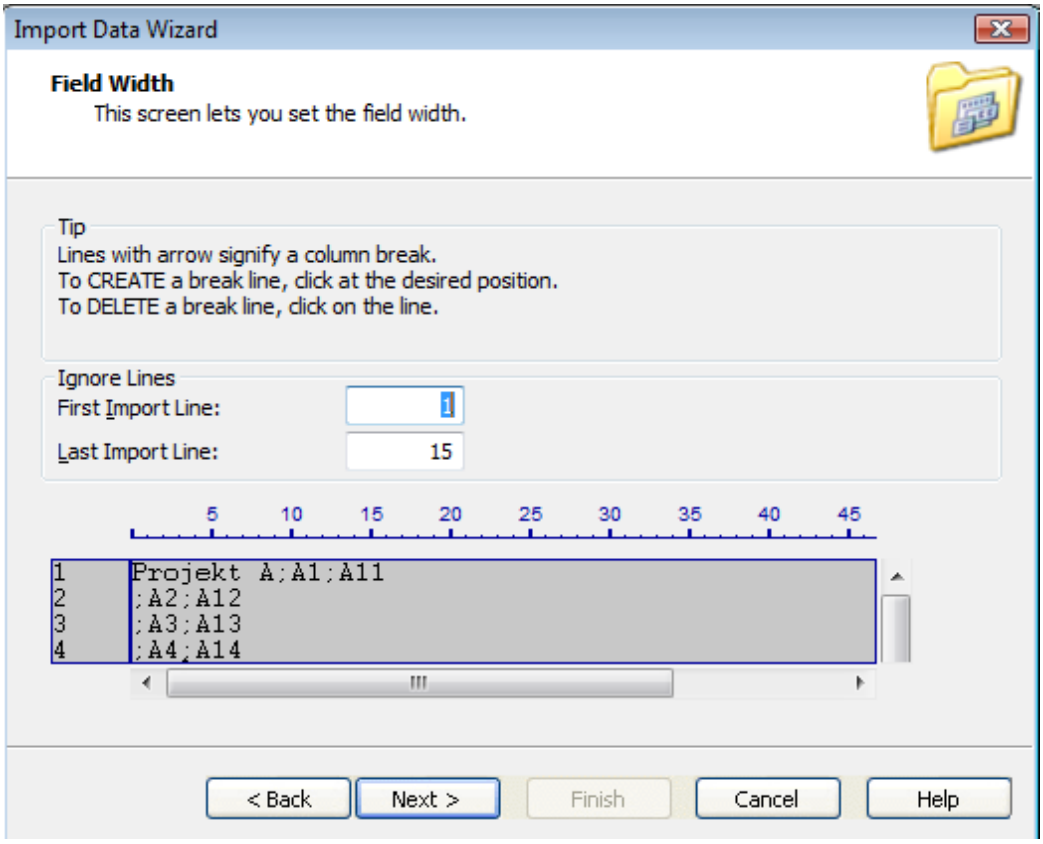
Source file with fixed column width

- Select the option "Fixed width..." if the source file contains fixed-width columns, for example column 1 = 10 characters, column 2 = 2 characters.

Example of a fixed-width file opened in a text editor

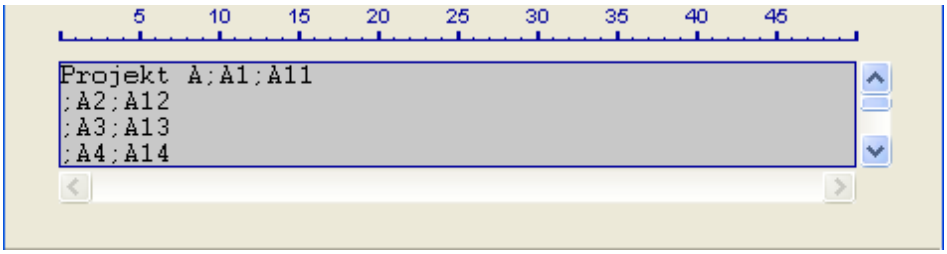
```
Projekt A  A1 A11
Projekt A     A12
Projekt A  A3 A13
Projekt A  A4 A14
Projekt A  A5 A15
Projekt A  A6 A16
Projekt A  A7 A16
Projekt A  A8 A18
Projekt B1 B1 B11
Projekt B1 B2 B12
Projekt B1 B3 B13
Projekt B1 B4 B14
Projekt B1 B5 B15
Projekt B1 B6 B16
Projekt B1 B7 B17
Projekt B1 B8 B18
```

- Click on **Next** to go to the next step.



Define the column widths.

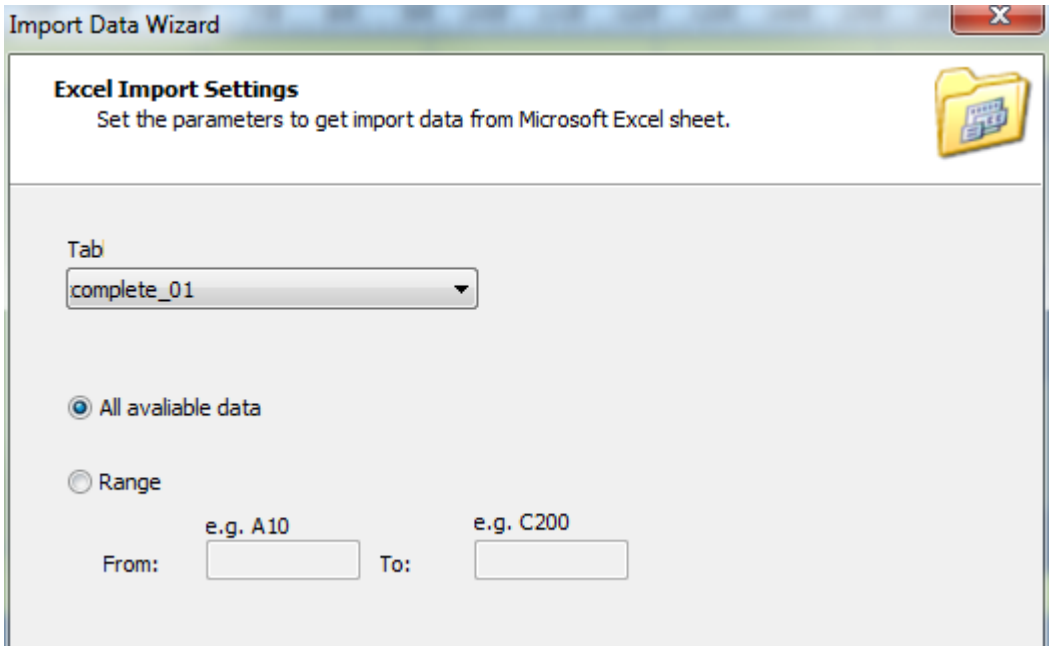
- To do this, click on the ruler at the position where you want a new column to start. The columns are separated by an arrow.



- You can remove the column break by clicking on the arrow again.

Excel file: Importing

When importing an Excel® file (*.xls) you can select the worksheet and import range in this step.

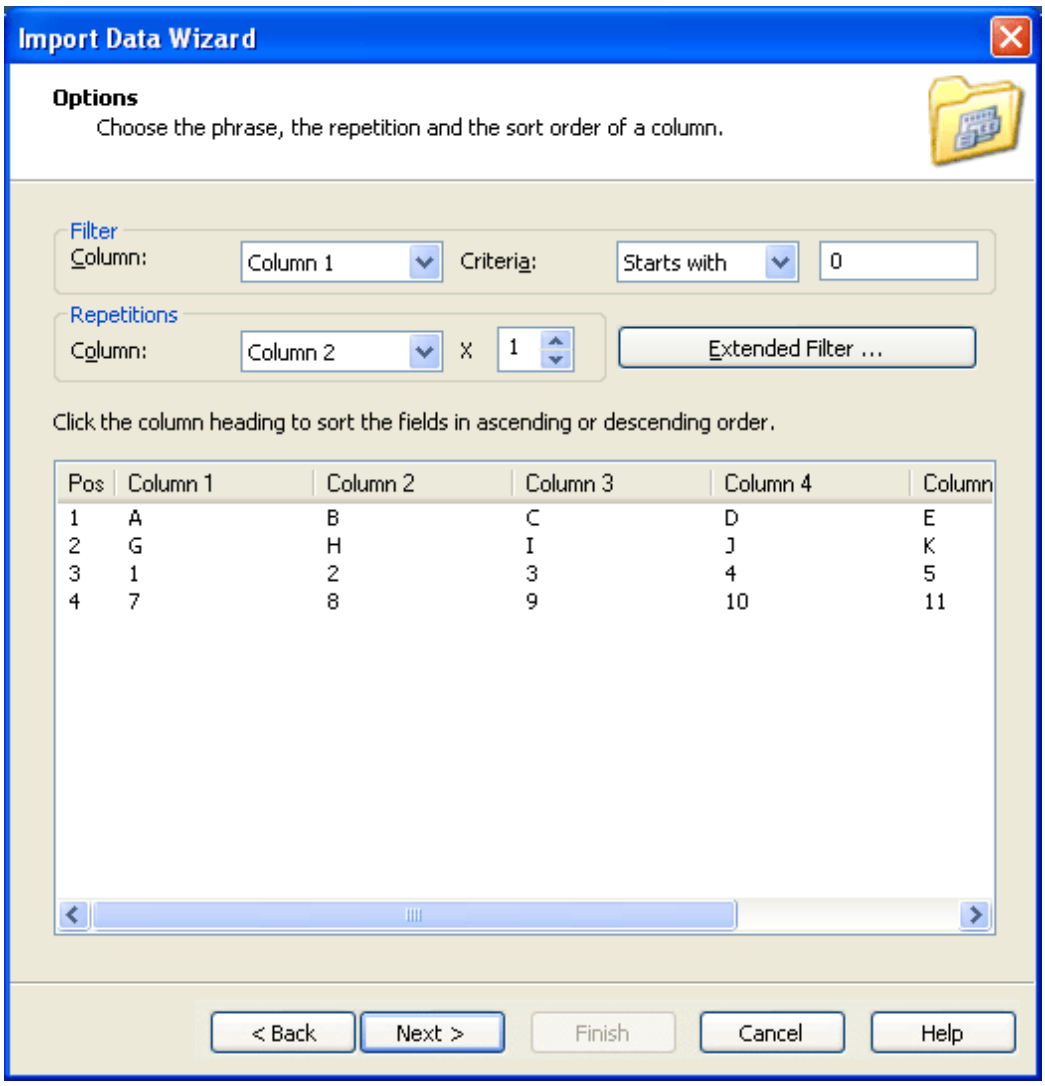


Data is only imported from one worksheet
Only content is imported – no formats

Step 6: Options

Set further import options:

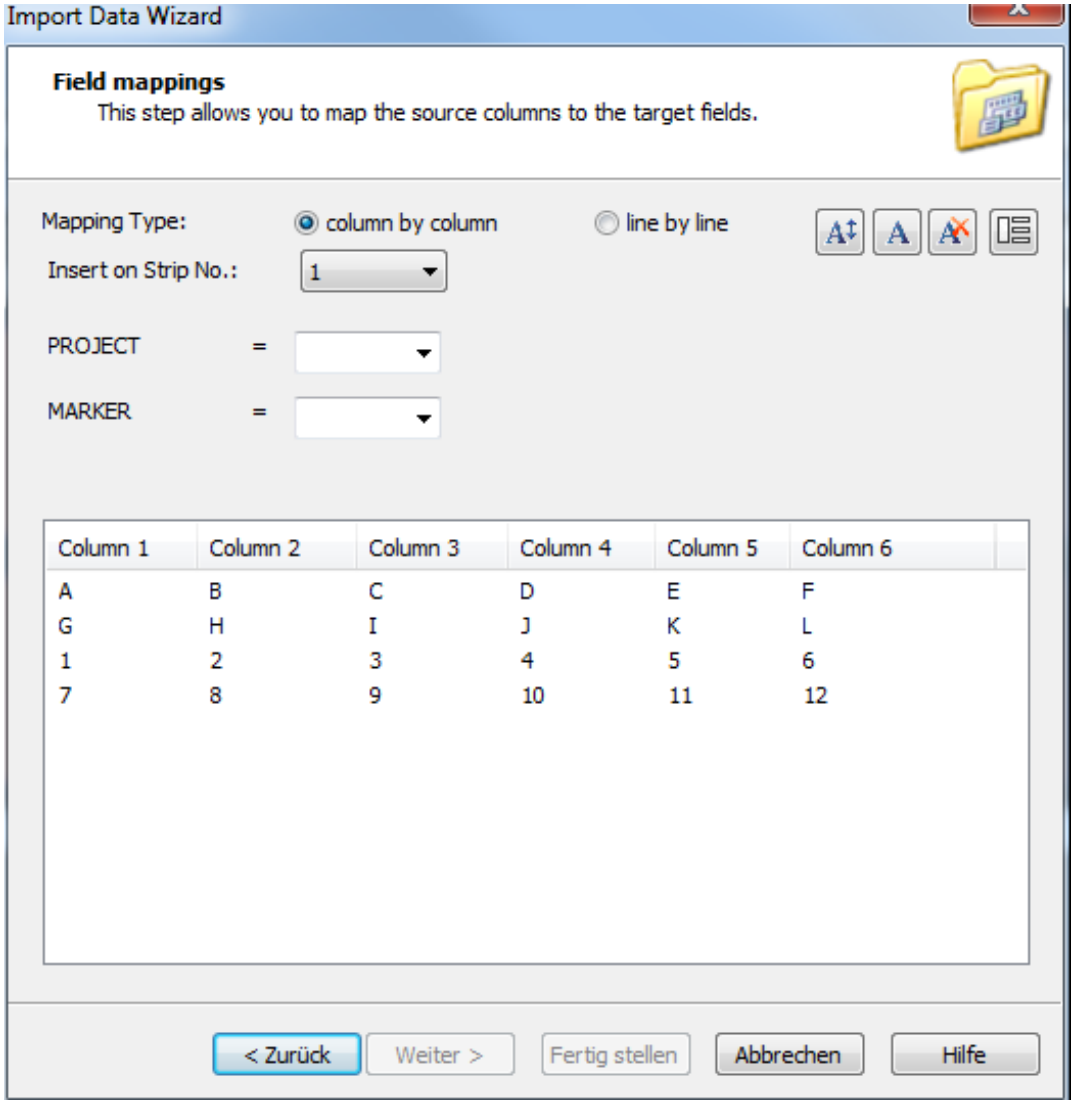
- Filter: Simple filter rule
  The selected column is imported filtered using the selected criteria
- Repetitions: The import row is repeated several times. The repetition factor per row is read from the selected column.
- Extended filter
  Further filter rules that can be applied to several columns.


Import Data Wizard
Options
Choose the phrase, the repetition and the sort order of a column.
Filter
Column:
Column 1
Criteria:
Starts with
0
Repetitions
Column:
Column 2
X
1
Extended Filter ...
Click the column heading to sort the fields in ascending or descending order.
Pos
Column 1
Column 2
Column 3
Column 4
Column
1 A B C D E
2 G H I J K
3 1 2 3 4 5
4 7 8 9 10 11
< Back
Next >
Finish
Cancel
Help

Step 7: Field mappings

Use this step to determine the field mappings.

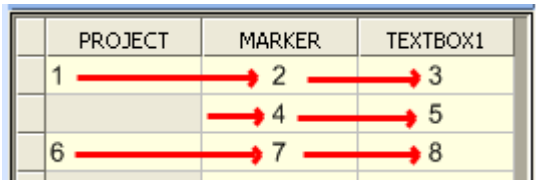
- Mapping type
- Field mapping
- Field format



Mapping type

Column by column
Column by column refers to the columns of the data grid.
Select **Column by column** if you want to assign the content to special columns (markers/elements).

Line by line
Line by line refers to the lines of the data grid.

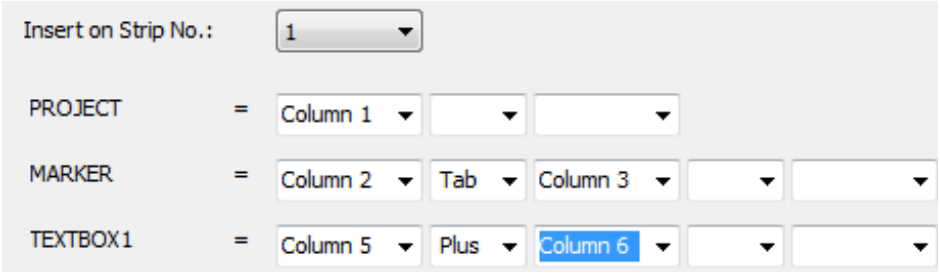


Select **Line by line** if you want to add the imported content line by line (as shown in the data grid).

Field mappings

You can import data into existing elements (into the marker type) via the field mappings. The field names – such as PROJECT, MARKER or TEXTBOX1 – are defined via the properties of the elements (see chapter "Adjusting element names")

The columns to be imported can be linked as you wish.
For endless labels (endless strips), you can select the number of the strip to be used for import via the “Insert on strip no.” dropdown box (see chapter “General operation”, section “Endless strips”).



Combination options are, for example:

- Return
- Space
- Tab
- Without delimiter (plus)
- Texts
- Next field (for endless material only)

In order to make subsequently added fields (text, barcode) available for further editing on endless material, set the "Fill order" property in the properties of the field (see chapter "User interface", section "Behavior").

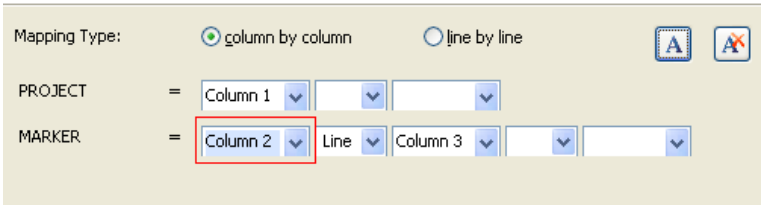
Field formats

The content of the columns to be imported can be formatted via the Import Wizard (font, color, size).

- Select a drop-down field with selected column.
- Click on the icon to open the format dialog.

- Select the data format.

Data already formatted is color-shaded:



- To delete ALL formats, click on .

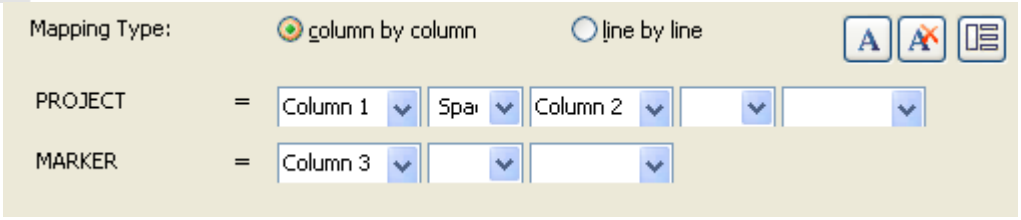
Import Project Text into Marker

The texts of the project layer (project markers) can automatically be inserted in the marker areas (markers) during the import process.

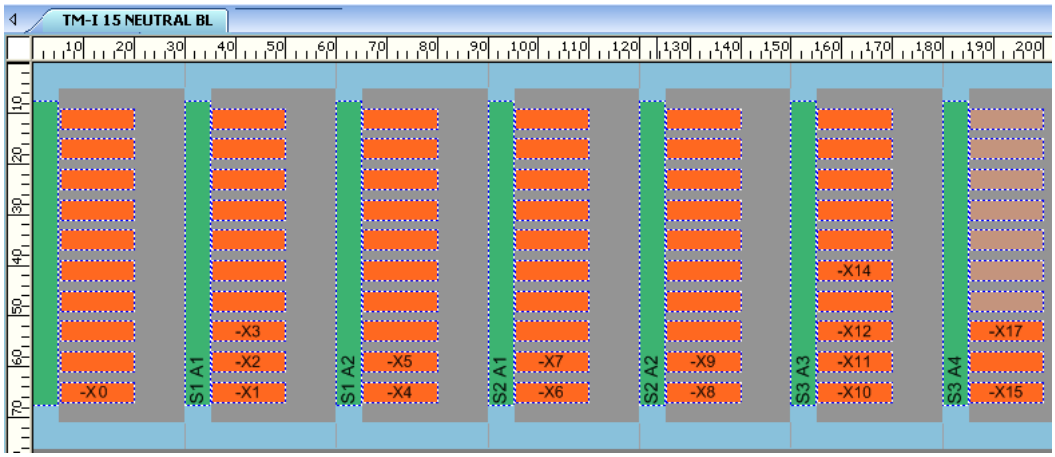
- Click on the button to import the project texts into the markers.
- The appearance of the button changes to .

Example:
The following text file is due to be imported using the indicated field mappings:

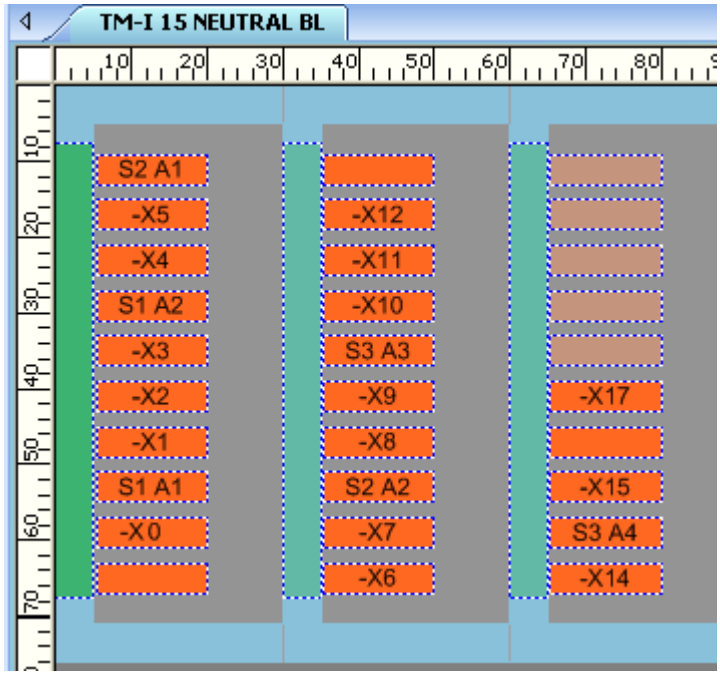
```
1   ⟶⟶-X0
2   S1⟶A1⟶-X1
3   S1⟶A1⟶-X2
4   S1⟶A1⟶-X3
5   S1⟶A2⟶-X4
6   S1⟶A2⟶-X5
7   S2⟶A1⟶-X6
8   S2⟶A1⟶-X7
9   S2⟶A2⟶-X8
10  S2⟶A2⟶-X9
11  S3⟶A3⟶-X10
12  ⟶⟶-X11
13  S3⟶A3⟶-X12
14  ⟶⟶
15  S3⟶A3⟶-X14
16  S3⟶A4⟶-X15
17  S3⟶A4⟶
18  S3⟶A4⟶-X17
19
20
```



Import **WITHOUT** the function results in the following:



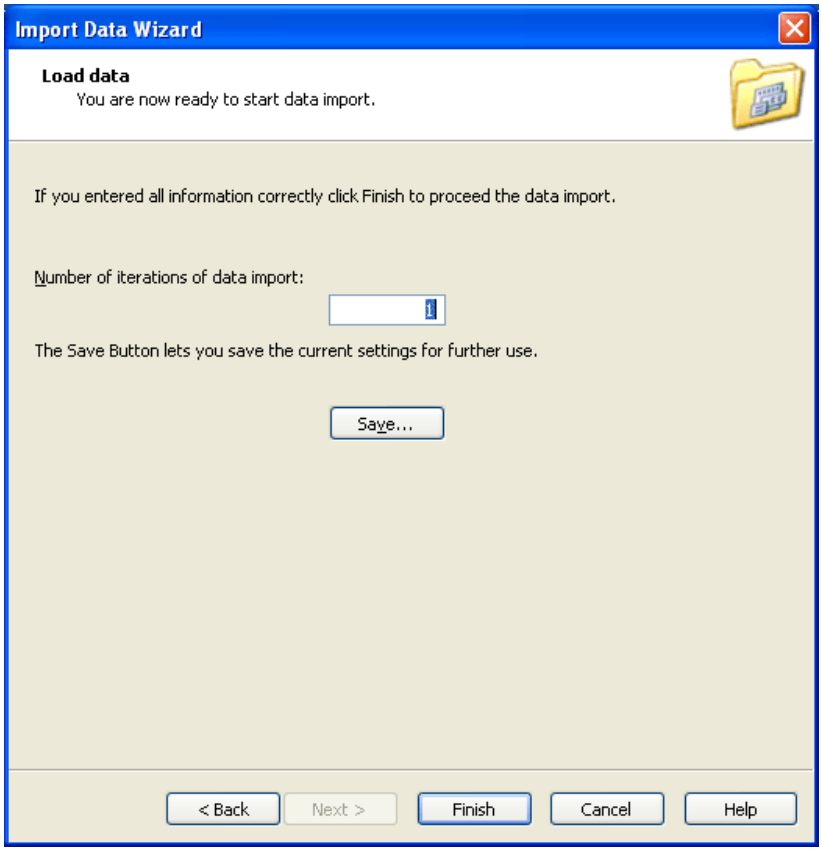
Import **WITH** the function results in the following:



Step 8: Saving and finishing

The last step serves to complete the import. You have the following options to complete the import:

- Set the number of iterations of data import
- Save
  The defined import steps are saved as a script file (see chapter "Automated import" or "Batch import").
- Finish
  Imports the source file with the settings made.


Import Data Wizard
Load data
You are now ready to start data import.
If you entered all information correctly click Finish to proceed the data import.
Number of iterations of data import:
1
The Save Button lets you save the current settings for further use.
Save...
< Back
Next >
Finish
Cancel
Help

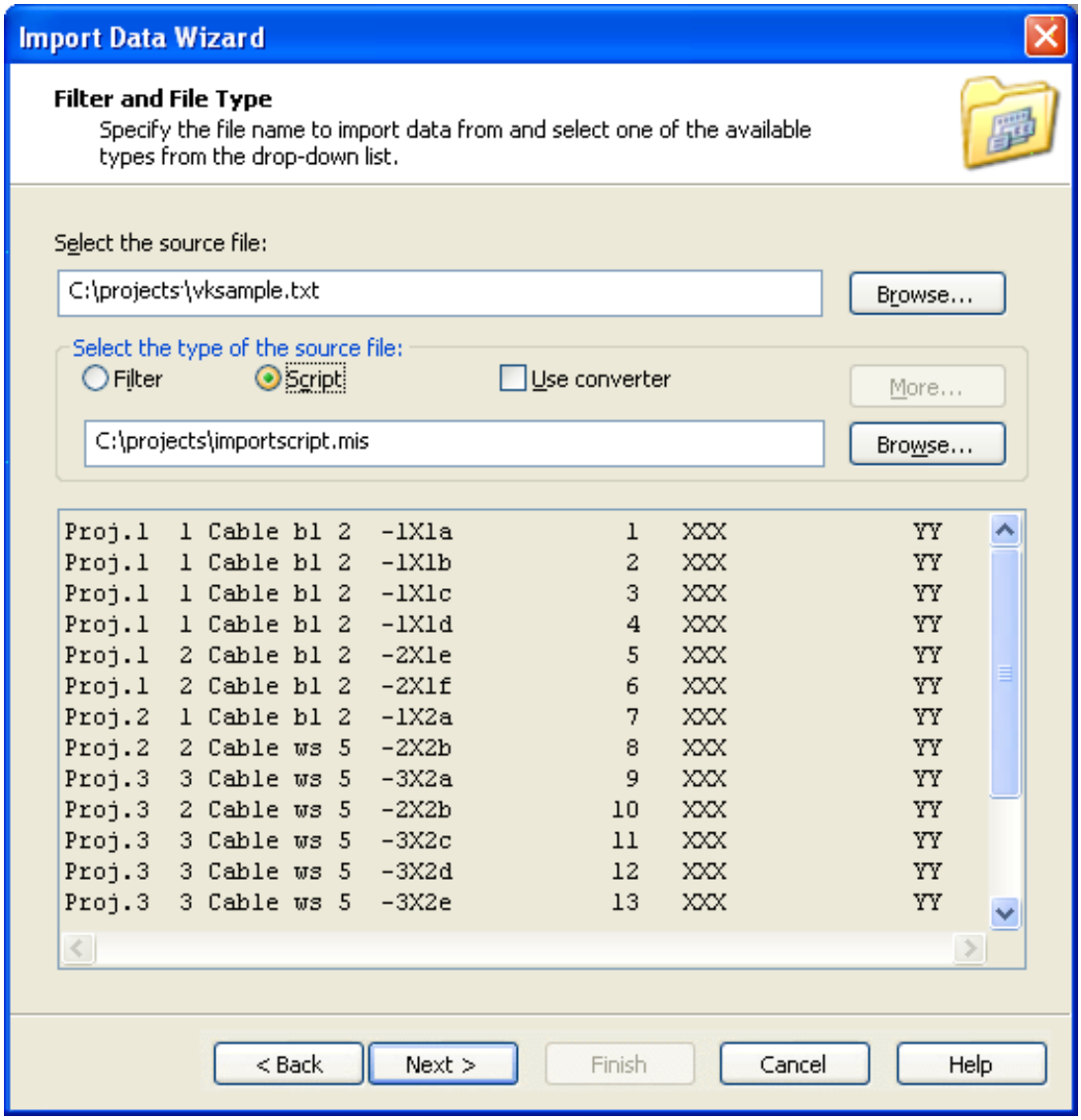
If the data is imported successfully, the following message box appears, showing how many records were imported:

If you can see a red triangle in text fields on the workspace, the imported data does not fit into the field.
Not all of the text is displayed or printed.
You will need to shorten the text or reduce the font size! (See also "Adjusting the font size")

Automated import

If you have previously imported a file and saved the import routine (see section "Step 8: Saving and finishing"), you can reuse this routine.

- Start the import process as described in chapter "Starting the import".


Import Data Wizard
Filter and File Type
Specify the file name to import data from and select one of the available types from the drop-down list.
Select the source file:
C:\projects\vksample.txt
Browse...
Select the type of the source file:
Filter
Script
Use converter
More...
C:\projects\importscript.mis
Browse...
Proj.1 1 Cable bl 2 -1X1a 1 XXX YY
Proj.1 1 Cable bl 2 -1X1b 2 XXX YY
Proj.1 1 Cable bl 2 -1X1c 3 XXX YY
Proj.1 1 Cable bl 2 -1X1d 4 XXX YY
Proj.1 2 Cable bl 2 -2X1e 5 XXX YY
Proj.1 2 Cable bl 2 -2X1f 6 XXX YY
Proj.2 1 Cable bl 2 -1X2a 7 XXX YY
Proj.2 2 Cable ws 5 -2X2b 8 XXX YY
Proj.3 3 Cable ws 5 -3X2a 9 XXX YY
Proj.3 2 Cable ws 5 -2X2b 10 XXX YY
Proj.3 3 Cable ws 5 -3X2c 11 XXX YY
Proj.3 3 Cable ws 5 -3X2d 12 XXX YY
Proj.3 3 Cable ws 5 -3X2e 13 XXX YY
< Back
Next >
Finish
Cancel
Help

Selecting the source file

- Click on the **Find...** button. A window appears where you can select the file you want to import.
- Select the file you want to import and click on the **Open** button.

The path and name of the file you want to import are now shown in the "Select the source file:" field.

Selecting the import script

- Select **Script** as the source file type and click on **Find…**.
- **Open** the script file (*.mis).
- Click on the **Finish** button or
  if you want to make changes, click on the **Next >** button.

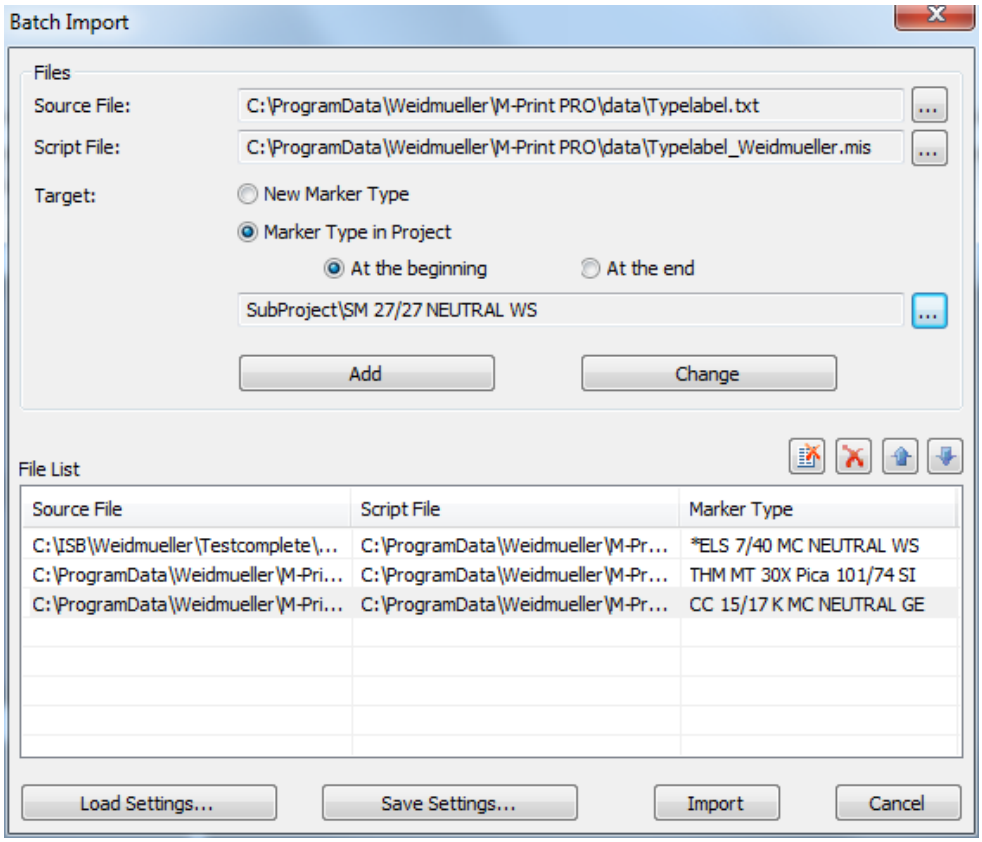
The import routine is started and the data is inserted in the marker type.

Batch import

A batch import is an automated import.
You have the following options:

- Import of one or several different source files.
- Each source file can be imported with its own script (see "Saving an import script")
- You can import into marker types from the catalog or templates (*.mpt).
- You can import into marker types of the open project.
- The batch that you compiled can be saved and reloaded at any time.
- A saved batch import file "*.bis" can also be opened via a command line call.

Start the batch import via **File > Batch Import…**



An asterisk in list entries in the "Marker type" column indicates that the target for import is a template (*.mpt) (see chapter "Templates").

Creating/adding a batch

- If you want to add a new import process to the batch, the fields "Source file", "Script file" and "Marker type" must be completed.

  Select the … button in each case.

- In the target you can also choose whether you want to import the data into a new marker type or into a marker type from the project that is open. In the latter case you can also define whether the data should be inserted at the beginning or at the end of the respective marker type.
- Click on the **Add** button to add the selected import combination to the batch.

Changing a batch

Changing the import combination

- Click on the batch entry in the list that you want to change.
- Change the import combination via the button or the selection option under **Target**.
- Change the batch entry by clicking on **Change**.
- Movie the batch entry
- Use the arrow buttons to adjust the order of batch processing.
- Delete batch entries

Deletes the selected list entry.

Deletes ALL list entries.

The entries are deleted without a confirmation prompt.

Converter

The converter supports prefiltering of the source file. It can be executed either via the Import Wizard (see "Settings in the Import Wizard" or via the command line (see chapter "Call parameters for converters").

QLS converter

When the QLS converter is used, a certain number of lines are combined into one line. When you select "QLSConverter.exe" in the import dialog (see chapter "Manual import"), the source file is prefiltered automatically (see "Example of QLS import").

The default settings of the "QLSConverter.exe" file are:

Delimiter:	Semicolon
Number of linked lines:	2

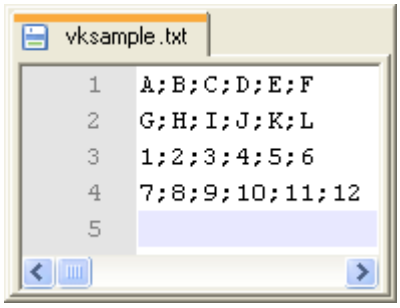
The parameters that can be set are given in chapter "Call parameters for converters".

Example of QLS import:

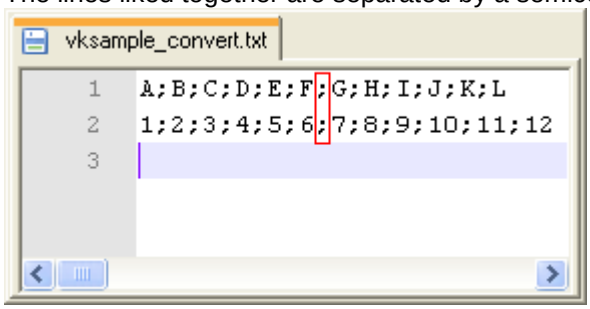
The customer wants to import 2 lines of the source file data as 1 line in the program.

Source file:

This file is due to be converted before the import.



Output file:
This file is imported.
The lines liked together are separated by a semicolon by default (see illustration).



TNV converter

When the TNV converter is used, two column pairs in a line are split into two lines and separated from each other with a new delimiter.

When you select "TNVConverter.exe" in the import dialog (see chapter „Manual import"), the source file is prefiltered automatically (see "Example of TNV import").

The default settings for the "TNVConverter.exe" file are:

Delimiter for source file:	Semicolon
Delimiter for output file:	Colon
Linked column pairs:	Column 0 with column 1 and column 3 with column 4

The parameters that can be set are given in chapter "Call parameters for converters".

The delimiters for the output file are extracted automatically from the "pair1" parameter.

If a pipe character ("|") is used as the delimiter for the output file, then the columns are combined WITHOUT a delimiter. The pipe character stands for "no delimiter".

The columns can only have numeric names; the first column in the source file is column 0.

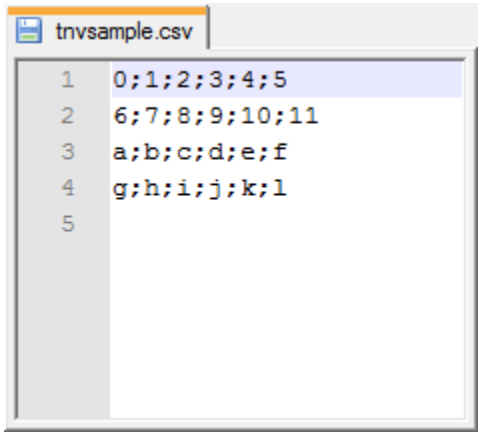
Blank lines or column pairs with no content are not imported.

Example 1 of TNV import:

From each line in a source file you want to combine two columns and import them into the program as a new line.

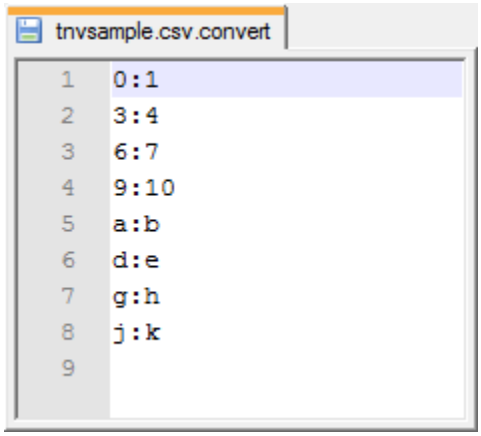
No additional parameters are selected.

Source file:
This file is due to be converted before the import.



Output file:
This file is the result of conversion by the TNV converter and can then be imported. (See illustration.)
The import is based on the default parameters:

- Delimiter for source file:Semicolon
- Delimiter for output file: Colon
- Linked column pairs: Column 0 with column 1 and column 3 with column 4

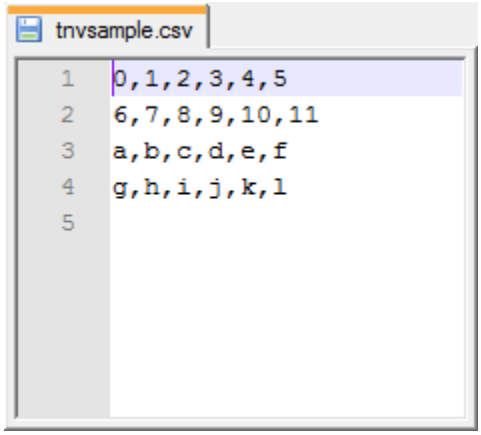


Example 2 of TNV import:

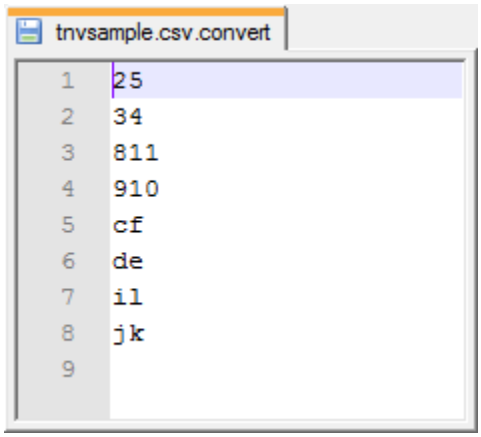
The import is based on the following parameters: -separator:"," -pair1:"2|5" –pair2:"3|4"

- Delimiter for source file:Comma
- Delimiter for output file: No delimiter
- Linked column pairs: Column 2 with column 5 and column 3 with column 4

Source file:
This file is due to be converted before the import.

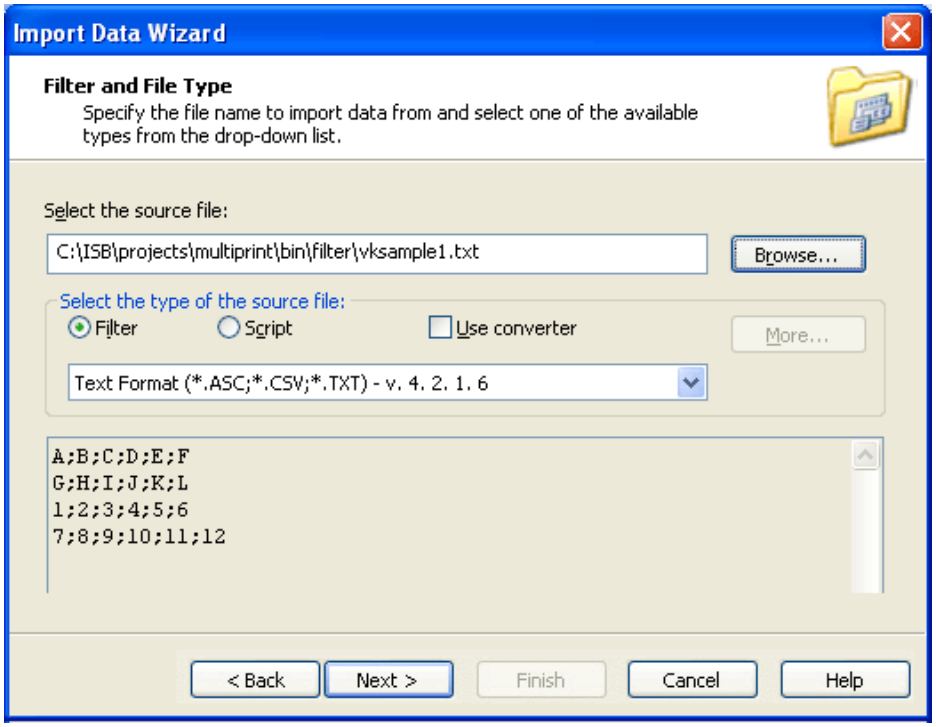


Output file:
This file is the result of conversion by the TNV converter and can then be imported. (See illustration.)

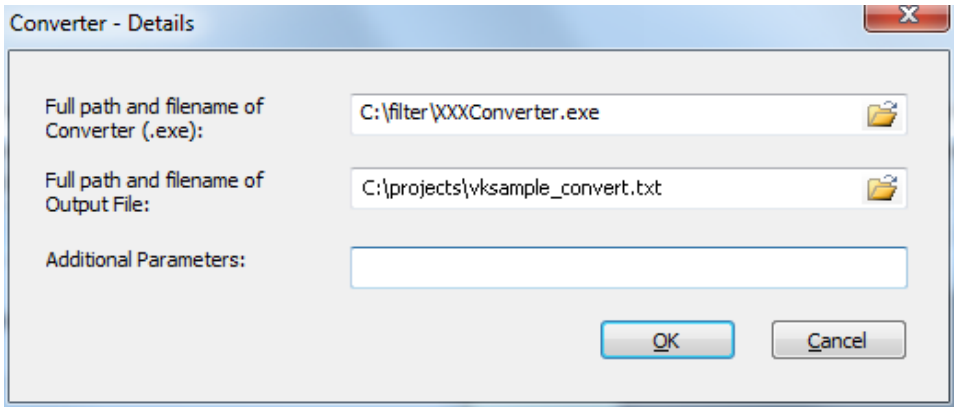


Settings in the Import Wizard

- Select the source file "vksample.txt".
- Check "Use converter" and click on "More..."



The dialog for setting the converter details opens.



- Click on the selection buttons to select the converter file "XXXConverter.exe" and the output file.
- If the field for the output file remains empty, the path of the source file is used and the extension "convert" is appended to the source file name
- The delimiters and column pairs can be defined in the "Additional parameters" field.
- Select "OK" to return to the Import Wizard.

The rest of the import process is carried out with the output file.

To execute the converter file "XXXConverter.exe" with other parameters, it must be controlled via the command line (see chapter "Call parameters for converters").

Printing

Introduction

This chapter describes how to set up and calibrate printers and how to assign them to captioned MultiCard mats, labels etc., as well as the two printing options:

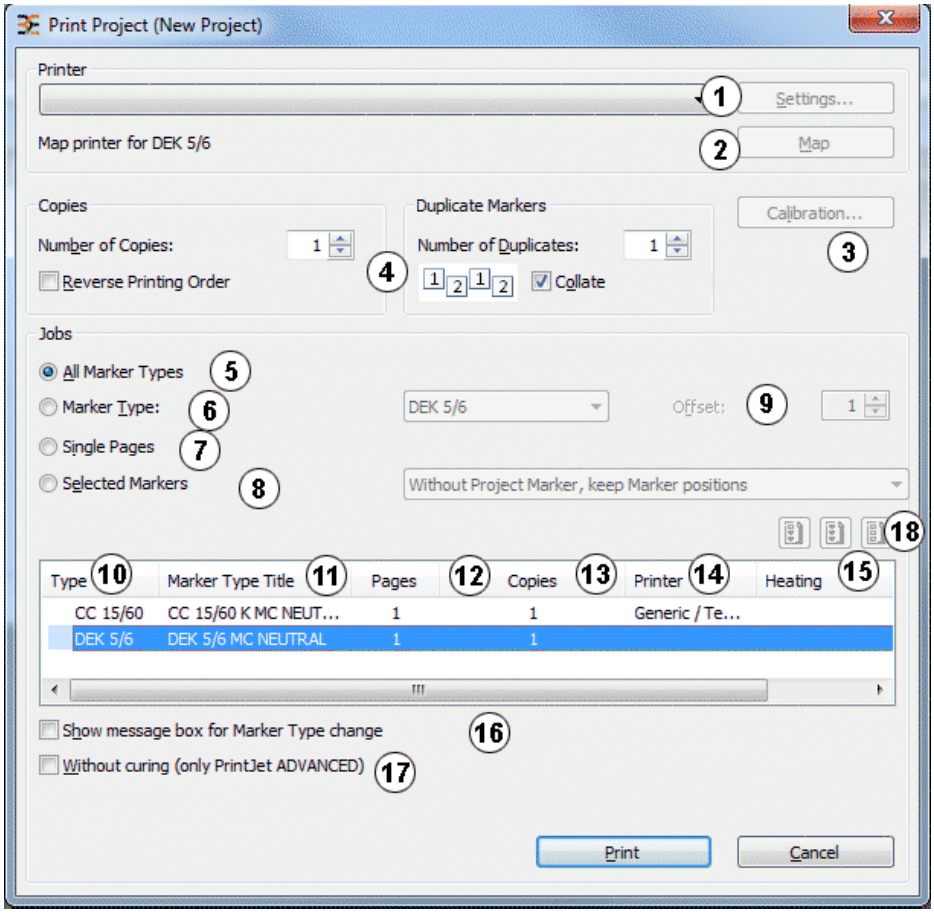
5. Via the standard print dialog (see section "Calling up the print dialog").

6. Via the fast printing mode (see section "Fast printing").

Calling up the print dialog

- Select **File** > **Print…**.

This opens the print dialog where you can print and define all printer settings.



1 **Settings**

Show the printer settings dialog, if available.

The PrintJet PRO can only be set via the options dialog (see chapter "Options – PrintJet PRO").

If the button is not enabled when you have selected a printer, it can be enabled via the options dialog (see chapter “Options dialog”, section “Environment”, subsection “View”)

2 **Map**

Map (assign) a printer to the selected marker type. The mapping is saved. To make changes, see chapter "Mapping a printer to a marker type".

3 **Calibration**

Adjust printers to the selected marker type (see chapter "Adjusting the printer offset").

4 **Number of copies**

The number of times the print job has to run.

Printing can also be separated by markers (duplicates) (see chapter "Setting up print jobs").

The “Reverse print order” box retains the chosen value as long as the program is open.

5 **All marker types**

All marker types in the list are printed.

6 **Marker type**

Only the selected marker type is printed.

7 **Single pages**

Selection of specific pages of different marker types to be printed.

8 **Selected markers**

Select whether the project markers are also printed or whether the markers remain at their position or are combined.

9 **Offset**

The print dialog shows an "Offset" field if only one marker type has been selected for printing.

The offset shifts the start position for printing from the first marker to a different one.

For example, if you set the offset to 8, the first seven markers remain blank and printing starts at the eighth marker. The default setting is 1.

10 **Type**

All printable marker types in the current project.

11 **Marker type title / Variant name**

The marker type title. Clicking on the column header switches the display to the variant name (see chapter "Renaming a product").

12 **Pages**

Number of printable pages for the marker type

13 **Number**

The number of times the marker type in the list is printed.

Click into the field and enter the number of copies.

Note that the **number** is multiplied by the **number of copies**.

14 **Printer**

The printer mapped to the marker type. To make changes, see chapter "Mapping a printer to a marker type".

15 **Heating**
The required heating for the marker type (depends on the selected printer).

16 **Show marker type change**
If there are several marker types in the print process, a dialog is shown before a change to another marker type so that, for example, the printer magazine / plotter fixture can be changed.

17 **Without curing (only PrintJet ADVANCED)**
Heating is not switched on when printing on the Print**Jet ADVANCED**. The ink is not cured and can be removed again, for example, with cold water.

18 **User-defined page selection**
If you select "Single pages" (see item 7), you can make the following choice via three buttons:
- User-defined page selection (manual)
- Select all pages
- Deselect all (no page selection)

Mapping a printer to a marker type

By default, no printer is mapped to a marker type.

If no printer has been mapped to any or all of the marker types to be printed, confirming the message that appears sends the data to the default printer.

- Open the print dialog via **File** > **Print…**
- In the lower selection box, select the marker type that you want to map to a printer.
- Then select a printer from the "Printer" field and click the **Map** button..
- In the selection dialog that follows, define whether the selected printer is a printer or a plotter.
- In the dialog that follows, you can define whether you want to map the output device to all variants of the product. Select "No" to assign just the selected variant.

The selected printer is automatically assigned to this marker type whenever it is printed.

To map a different printer to the marker type, select the required printer from those that are installed and open the mapping dialog (see section "Options dialog").

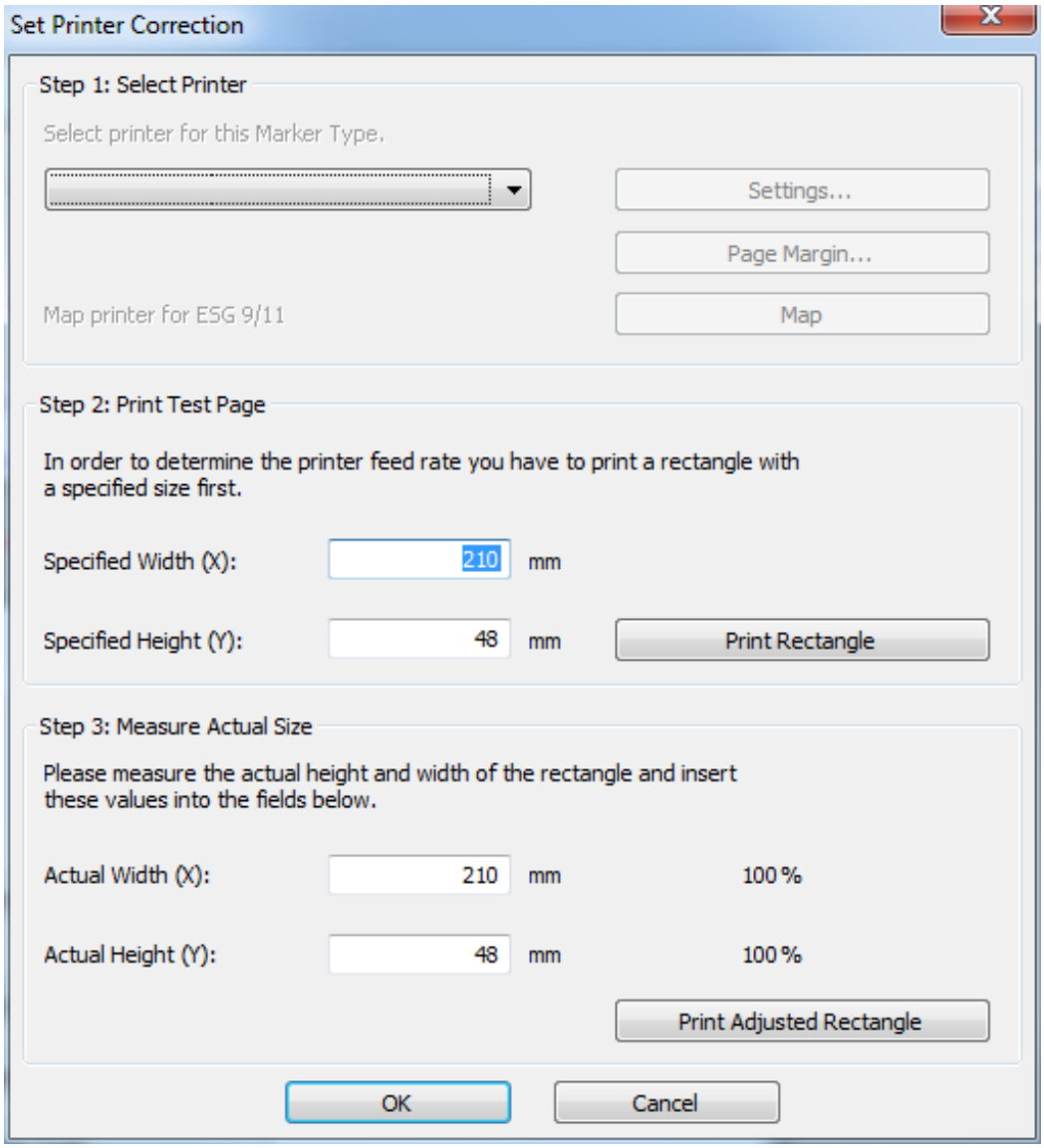
Mapping is only necessary for marker types which can be output on the printer or the plotter. Endless labels can only be output on the printer.

Printer correction

The printer may vary from its standard calibration in both the horizontal and vertical directions due to the environment or manufacturing.

- To correct the printer, select **Tools > Printer Settings > Set Printer Correction…**.

The following window appears:



Print a test page with a rectangle whose size you have to specify.

- In the **Specified width (X)** and **Specified height (Y)** fields enter the size of the rectangle and click the **Print Rectangle** button. .
- Measure the width and height of the printed rectangle, and enter these figures in the **Actual width (X)** and **Actual height (Y)** fields if they vary from the specified values.
- Close the window with **OK**.

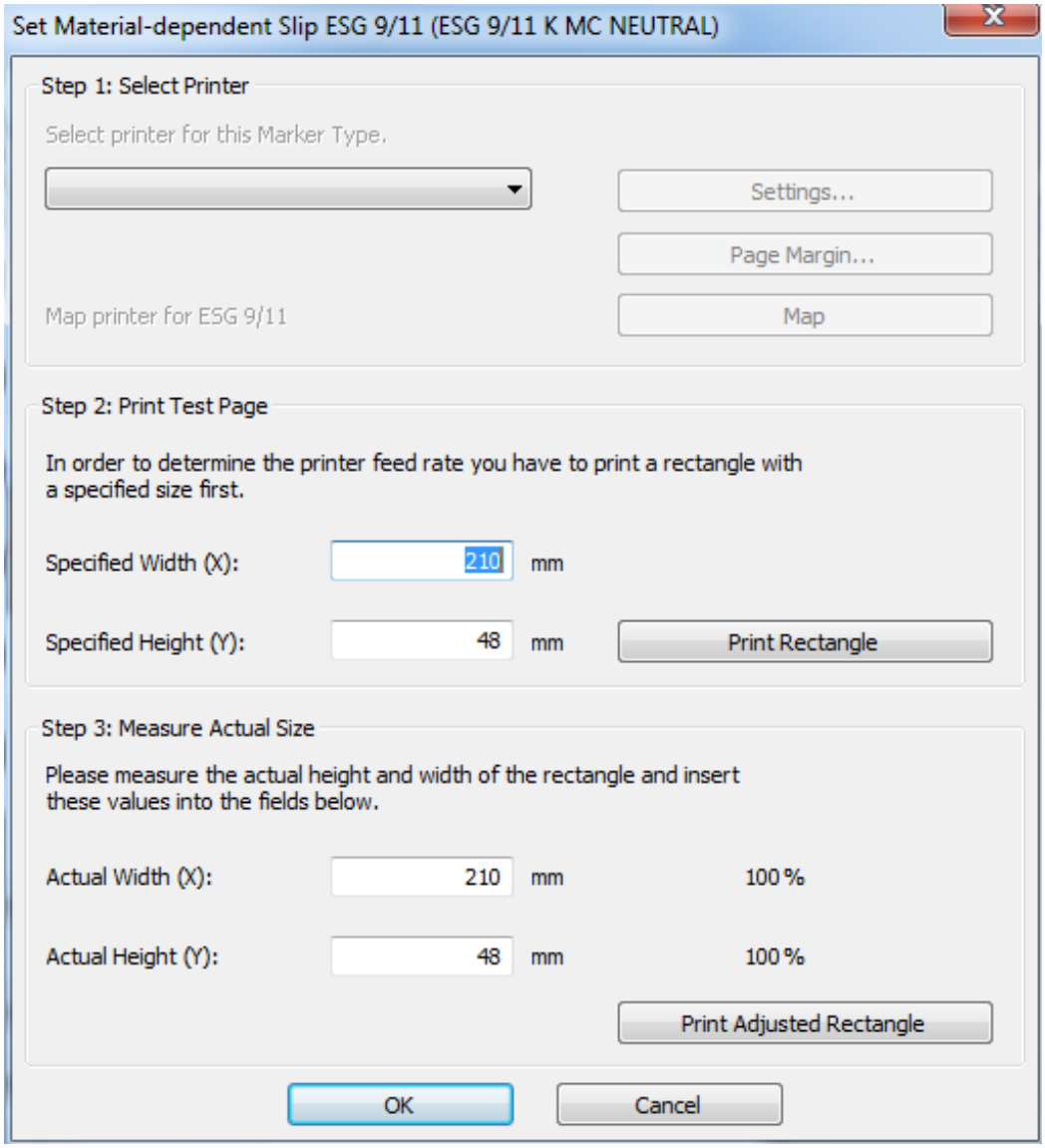
Printer correction is not allowed for plotters!
All printers that have been declared as plotters (see "Options – Plotter") are not shown in the printer selection box.

Printer correction only has to be done once for every printer. It does not depend on the markers.

This function runs on the Print**Jet ADVANCED** without curing and at the "fast" print quality.

Setting material-dependent slip

To adjust the MultiCard side margin and feed, select **Tools** > **Printer Settings** > **Set Material-dependent Slip...** .



Print a test page with a rectangle whose size you have to specify.

- In the **Specified width (X)** and **Specified height (Y)** fields enter the size of the rectangle and click the **Print Rectangle** button.
- Measure the width and height of the printed rectangle, and enter these figures in the **Actual width (X)** and **Actual height (Y)** fields if they vary from the specified values.
- Close the window with **OK**.

This function runs on the Print**Jet ADVANCED** without curing and at the "fast" print quality.

Adjusting the printer to the marker type

If printing is at the wrong position on the print medium (MultiCard mat, label, etc.), then you can adjust the printer to the medium in question.
The settings are made on the printer side by selecting the print medium (see section "Setting the printer to a print medium") or on the program side by setting the margins, feed etc. (see section "Adjusting the printer offset").

Setting the printer to a print medium

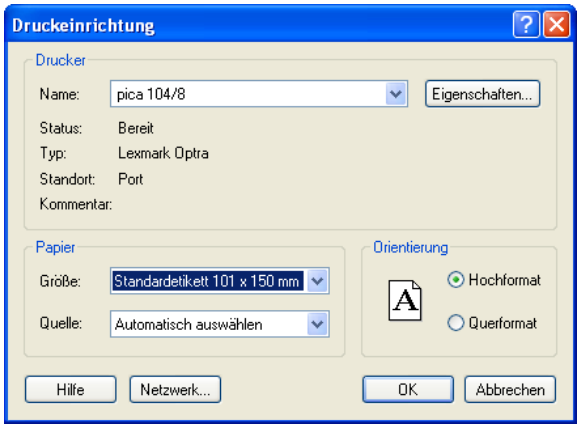
When printing labels, the printer has to be set to the right print medium.

- Open the print dialog via **File** > **Print…**

This opens the print dialog.

- Select the printer to be adjusted and click on the **Settings...** button.

The window for setting up the printer opens.



- In the "Paper" field, select the appropriate print medium and click on OK.

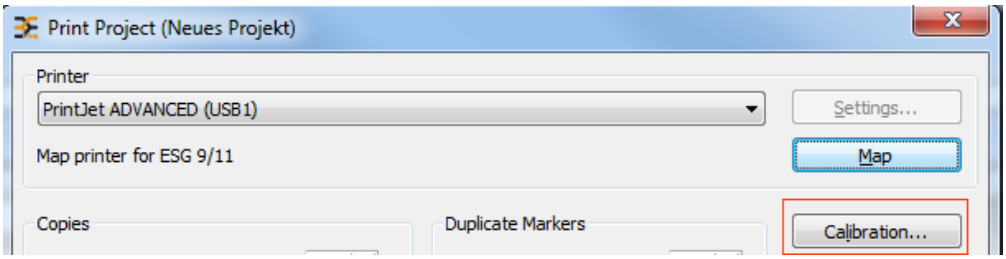
If the right paper is not available, you can click on the **Properties** button to define the settings for the printer.

To make sure that these settings are also available when the program is launched again, you should set these properties directly in the printer driver (see also the printer's manual/short guide).

- Click on the Windows **Start** button, then select **Control Panel** > **Printer**s.
- Right-click on the required printer and select **Properties** from the shortcut menu.
- Set the right paper.

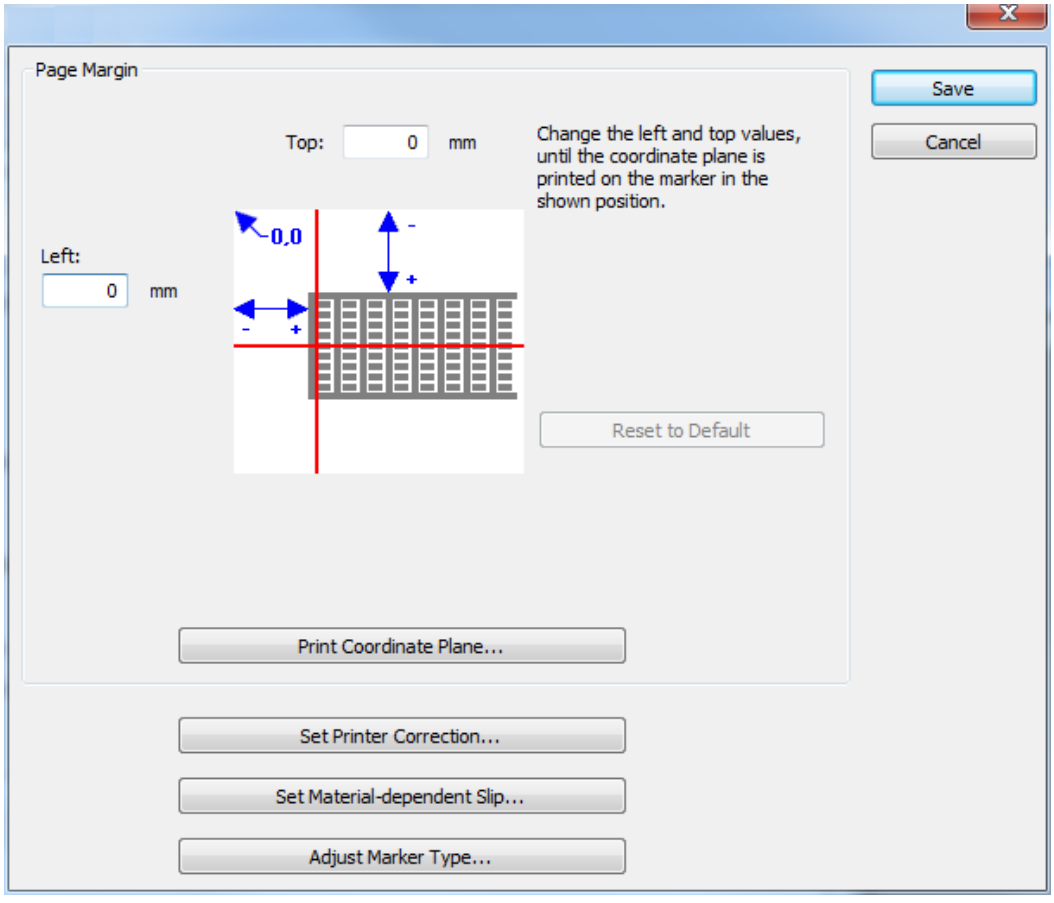
Adjusting the printer offset

- To calibrate a mapped printer, click on the **Calibration...** button.



Calibration is **not possible** if "PJA File Output" is selected. A message to this effect is displayed.

The following window appears.
(The appearance of the image depends on the marker type.)

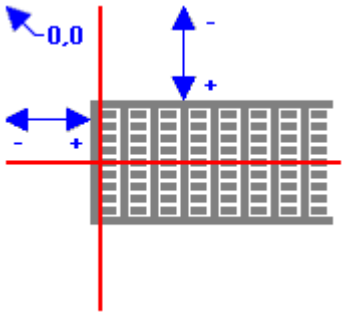


Adjusting the left and top margins

Settings for markers

To adjust the left and top margins of a MultiCard mat, you must print a coordinate plane on a MultiCard mat and measure its position.

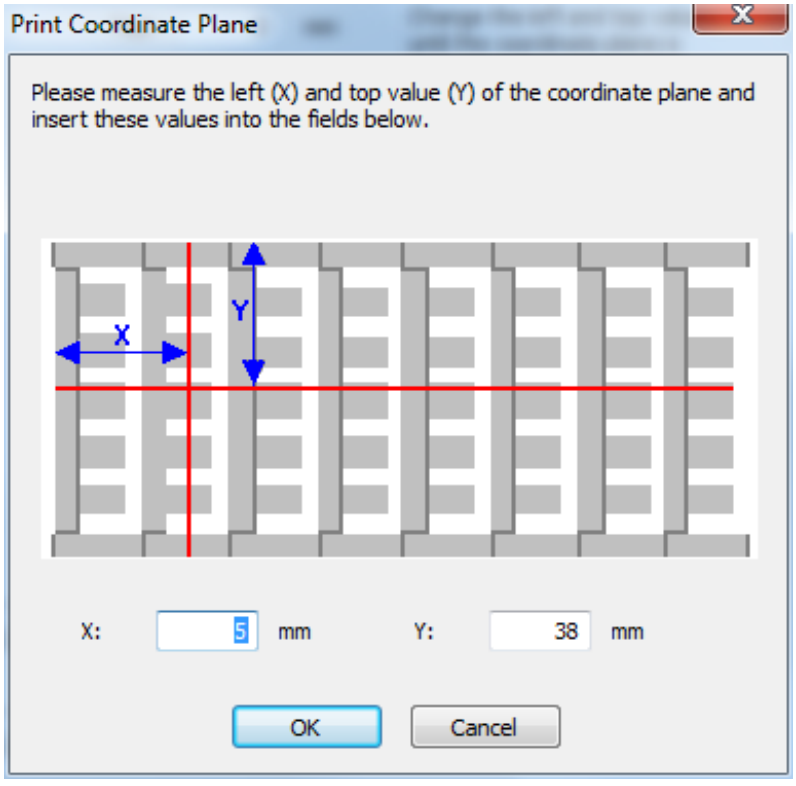
The coordinate plane should be in the following position:



This function runs on the Print**Jet ADVANCED** without curing and at the "fast" print quality.

- To print a test coordinate plane, click on the **Print Coordinate Plane...** button.

The "Print Coordinate Plane" window opens during printing.



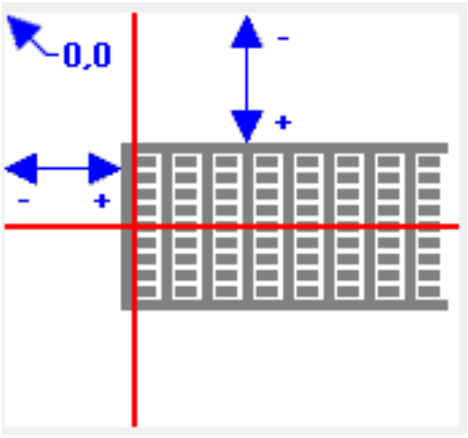
- Measure the left and top margins of the printed coordinate plane as shown, enter the figures in the corresponding fields and close the window with **OK**.

If necessary, repeat these steps to check the position of the coordinate plane.

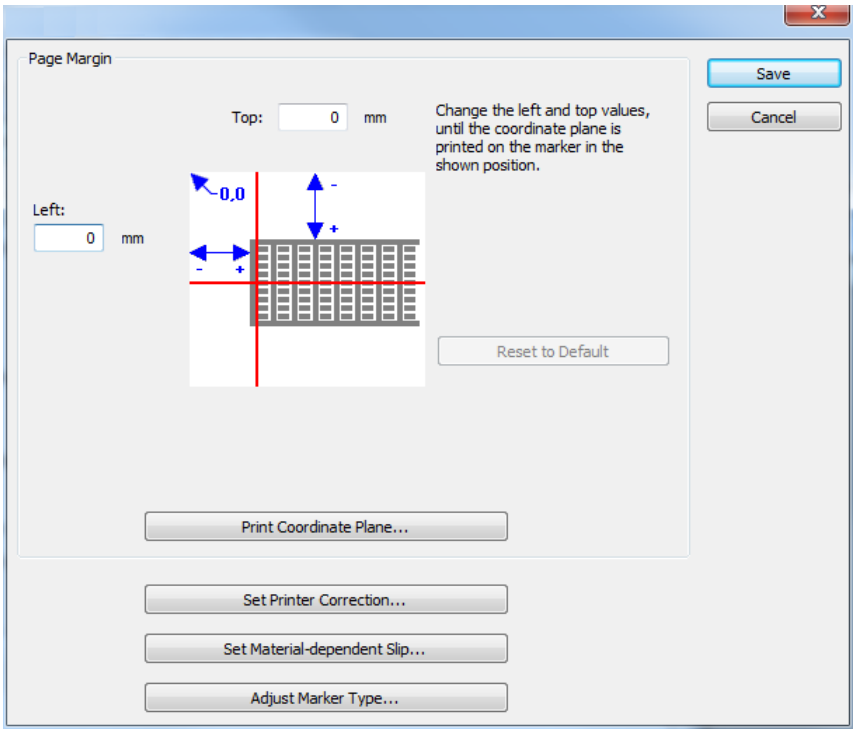
Settings for labels

To adjust the left and top margins of a label you should print a label (a filled rectangle the size of the label is advantageous) and measure the position.
It is important that the right paper is set in the printer (see section "Setting the printer to a print medium").

The label should be in the following position:



- Measure the left and top margins of the label as shown, enter the figures in the corresponding fields and close the window with **Save**.



If necessary, repeat these steps to check the position of the label.

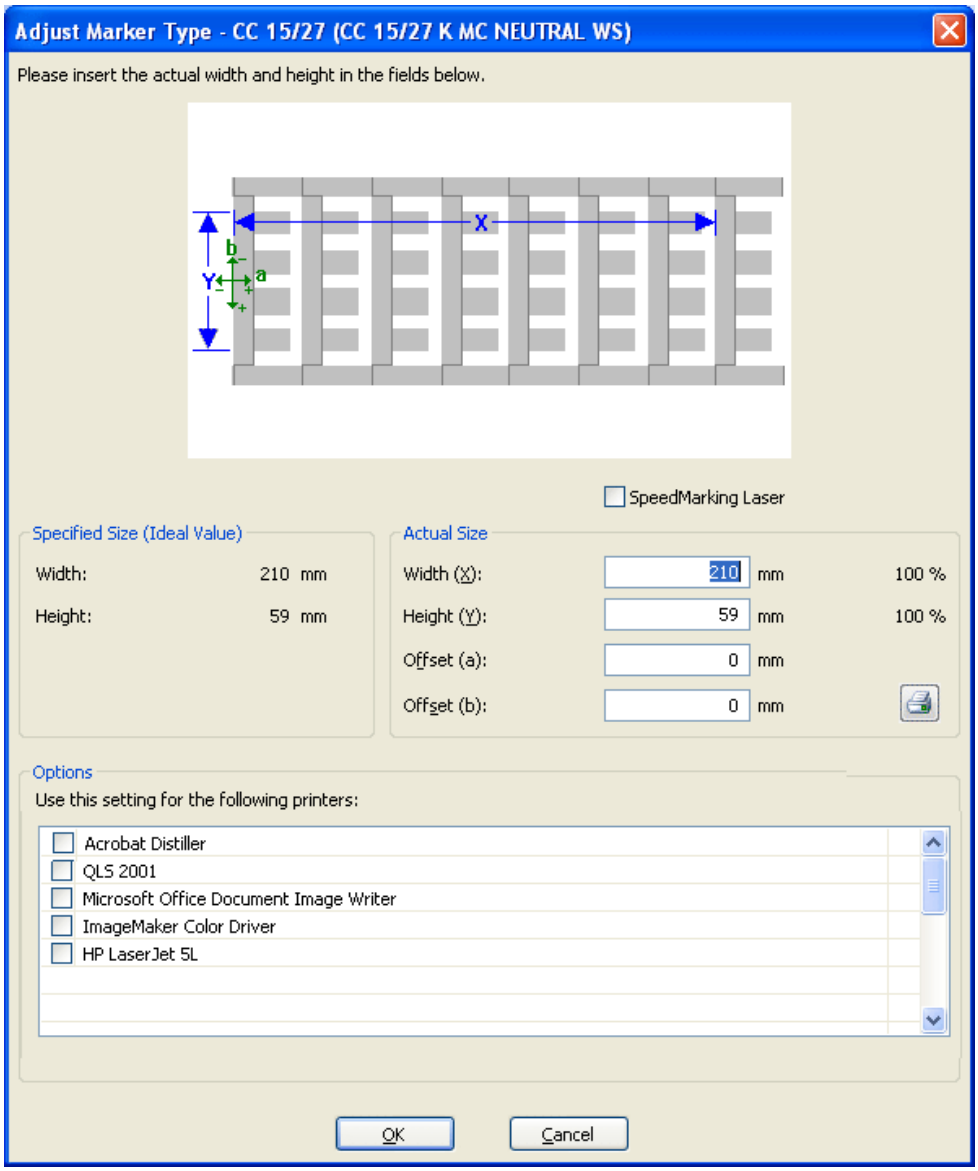
The margin only has to be adjusted once for every printer. Printer offsets do not depend on the markers.

Adjusting the size of the marker type

Marker types may not be their normal size, for example as a result of the ambient temperature.

- Click on the **Adjust Marker Type...** button, or select **File > Adjust Marker Type...** from the File menu.

The following window appears.



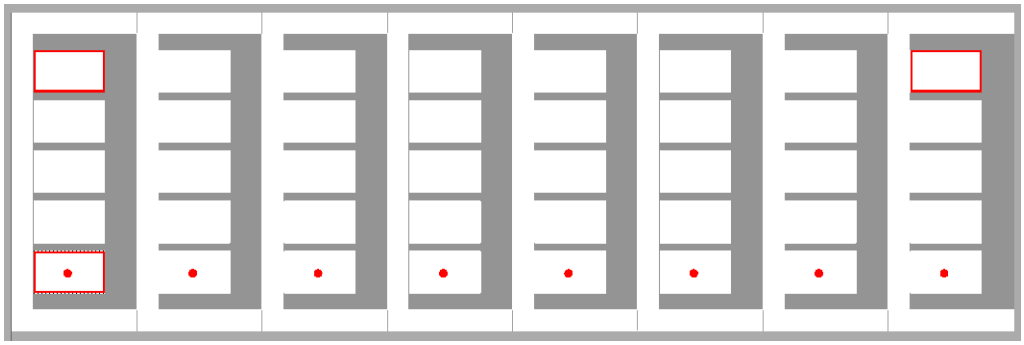
- Under "Options", select the printers for which these settings are due to be saved.
- Measure the width and height of the marker type as shown, and enter the figures in the **Width (X)** and **Height (Y)** fields.
- Close the window with **OK**.

Adjustment aid

You can do a trial print with an adjustment aid.
The adjustment aid consists in printing rectangles in marker size and centered dots.

- Under "Options", select the printer on which you want to output the adjustment aid.
- Click on the button.
- The adjustment aid is output on the printer.

Example:



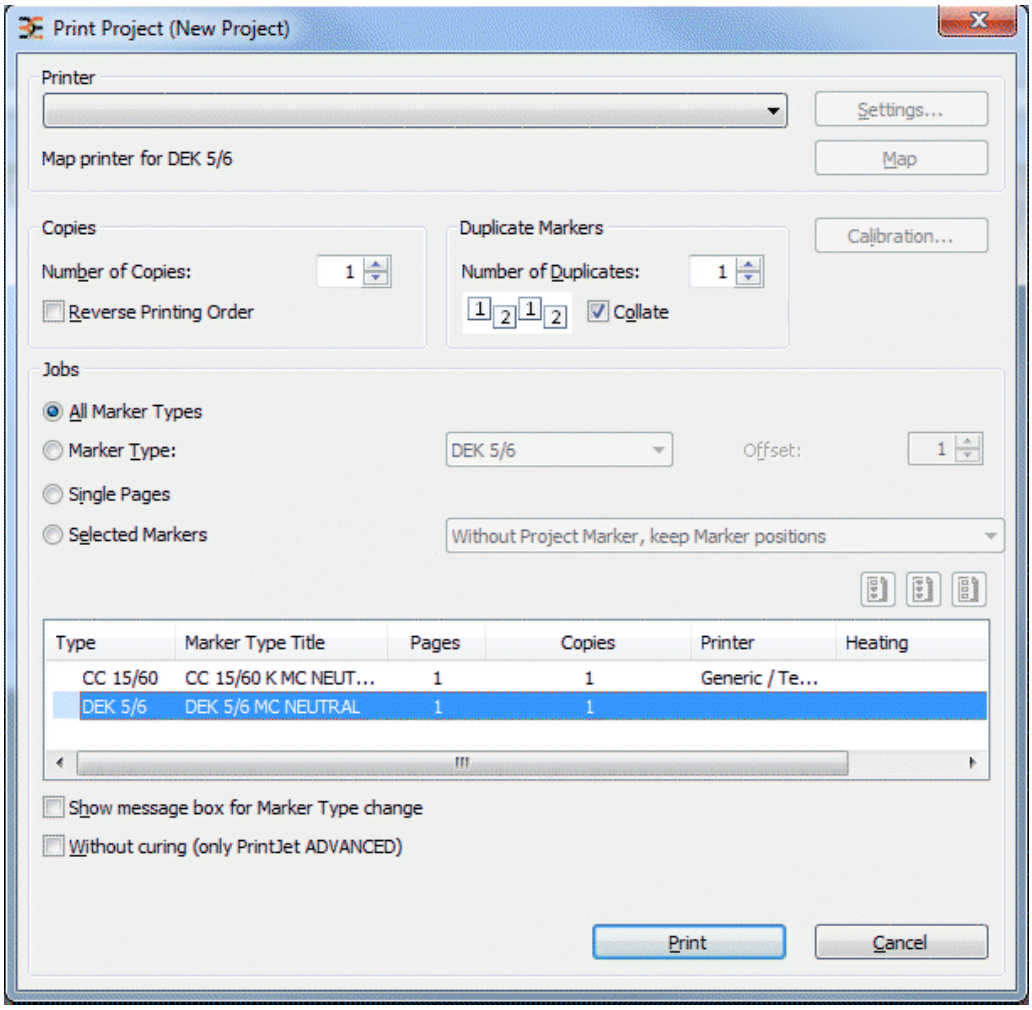
The adjustment aid is not available for the plotter.

This function runs on the Print**Jet ADVANCED** without curing and at the "fast" print quality.

Setting up print jobs

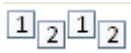
- Select **File** > **Print...**. on the menu bar.

The print dialog opens and you can select the jobs.

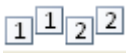


If no printer has been mapped to any or all of the marker types to be printed, confirming the message that appears sends the data to the default printer.

During printing, the individual markers can be reproduced any number of times.
Select the settings as follows:



Printing is in the order of markers as arranged in the marker type.

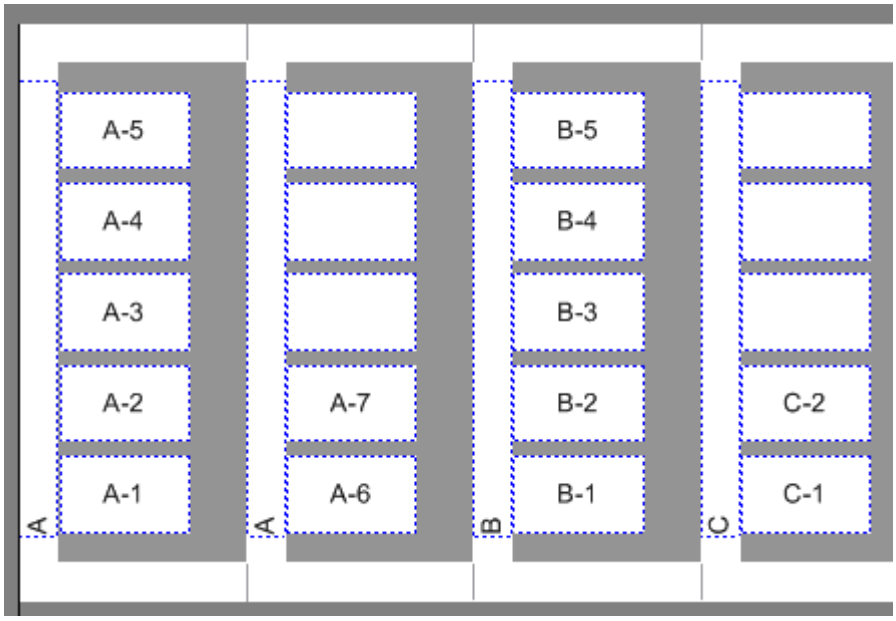


Printing is separated according to the individual markers on the basis of the number of duplicates defined.

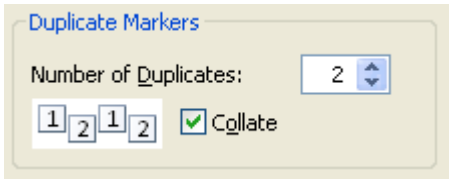
Existing projects are retained in the course of duplication.

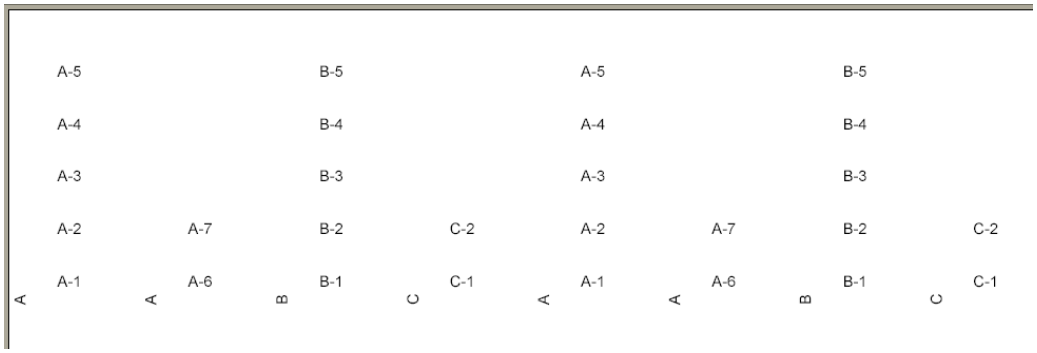
Example:

Populated marker type:

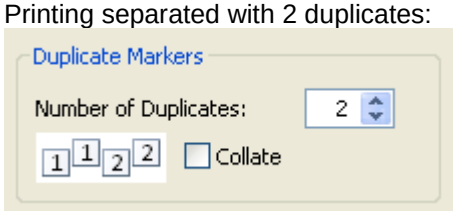


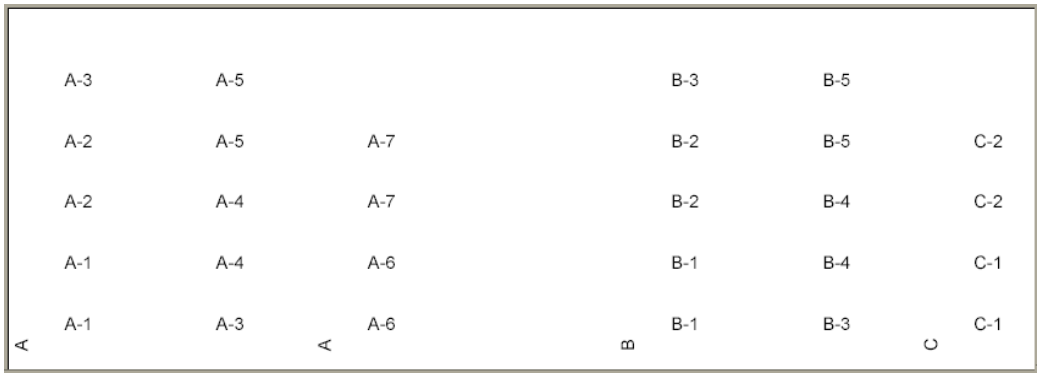
Printing sorted with 2 duplicates:





Printing separated with 2 duplicates:

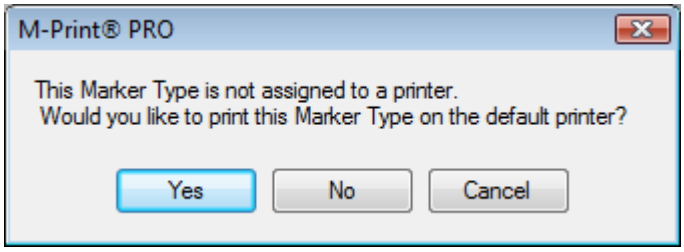




Fast printing

- To print just the current page, click on the following icon in the toolbar.

A message is output if the marker type to be printed has not been mapped to a printer.


M-Print® PRO
This Marker Type is not assigned to a printer.
Would you like to print this Marker Type on the default printer?
Yes
No
Cancel

If you specify **Yes**, the page is output on the default printer. If you specify **No**, the print dialog opens so that you can map a printer (see section "Mapping a printer to a marker type").

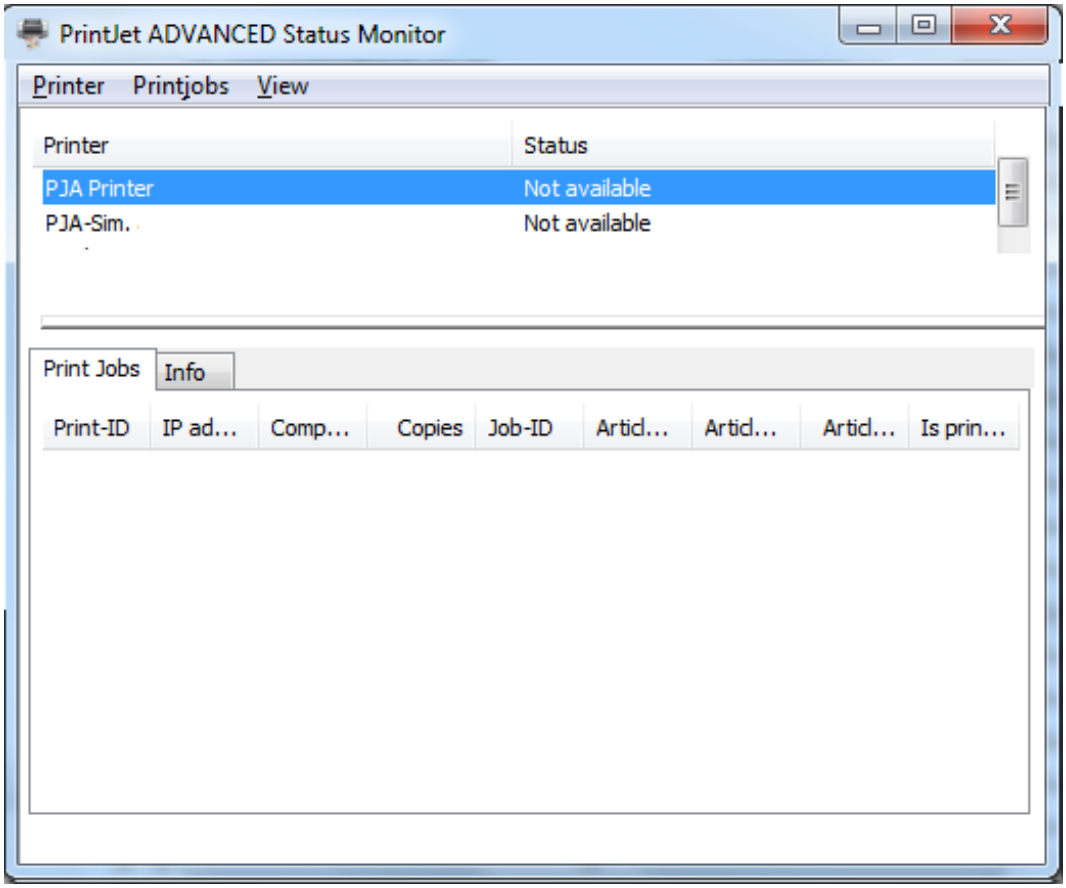
Printing directly

You can print all supported file formats directly via the command line.

Syntax: `"c:programMPrintPRO.exe" -p "myprint.rde"`

PrintJet ADVANCED Status Monitor

During output to the Print**Jet ADVANCED**, the Print**Jet ADVANCED** Status Monitor reports the status of the connected printer(s).

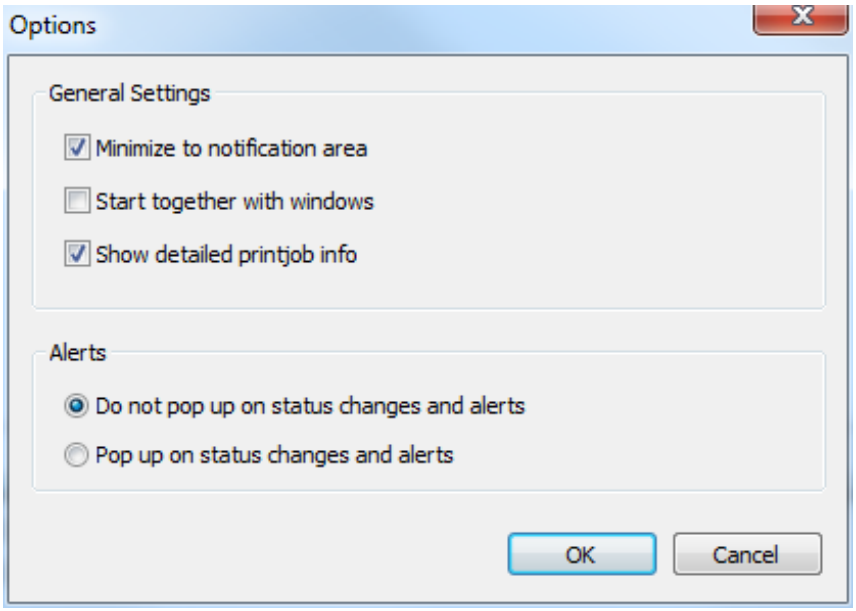


In the options you can define that the Print**Jet ADVANCED** Status Monitor is opened whenever printing starts on the Print**Jet ADVANCED** (see "Print**Jet ADVANCED**").

If a connected Print**Jet ADVANCED** is not shown in the list of printers, check the settings for the print (see "Print**Jet ADVANCED** Explorer").

Settings for the PrintJet ADVANCED Status Monitor

The following settings, among others, can be defined in the Print**Jet ADVANCED** status monitor via "Printer -> Options":



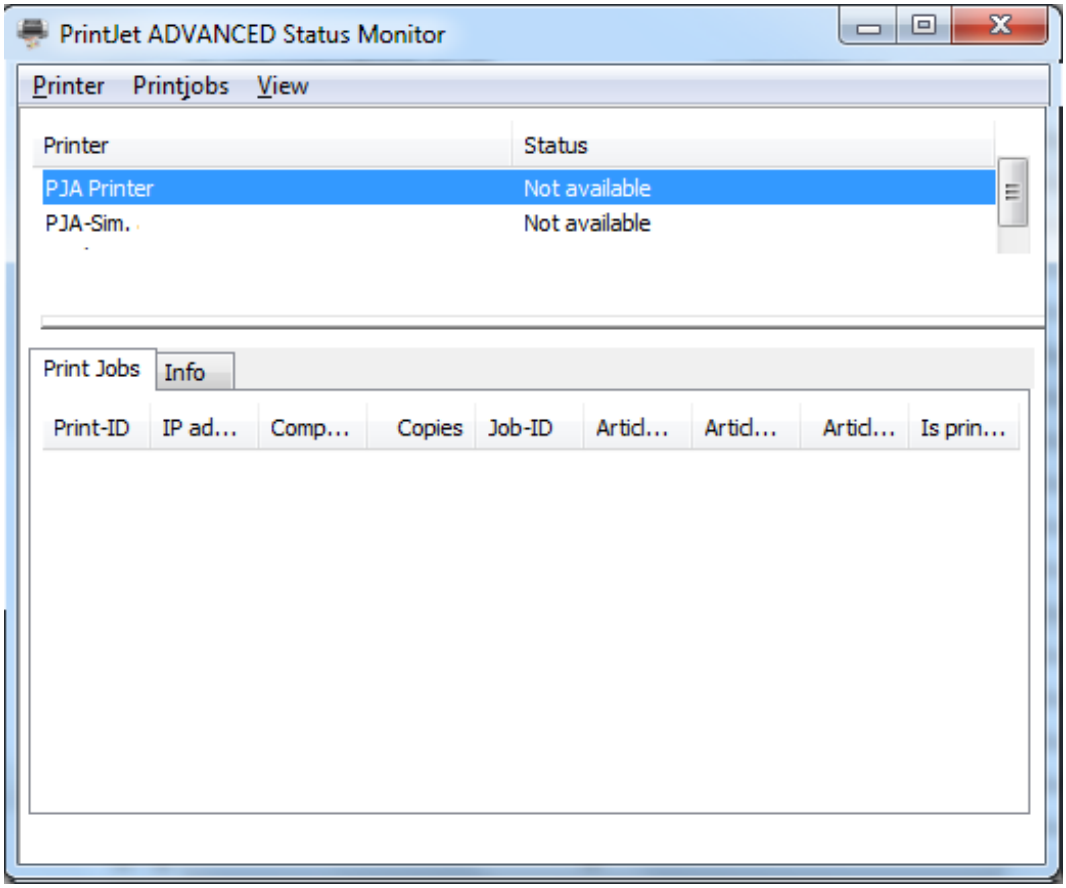
Minimize to notification area
When the window is minimized, the Print**Jet ADVANCED** Status Monitor is not shown on the taskbar but in the notification area.

Start together with Windows
The Print**Jet ADVANCED** Status Monitor is started when Windows starts.

Show print jobs in detail
If you select this, more information columns are shown on the "Print Jobs" tab (see "Print jobs for the Print**Jet ADVANCED**").

Print jobs for the PrintJet ADVANCED

You can see the list of print jobs via the "Print jobs" tab.



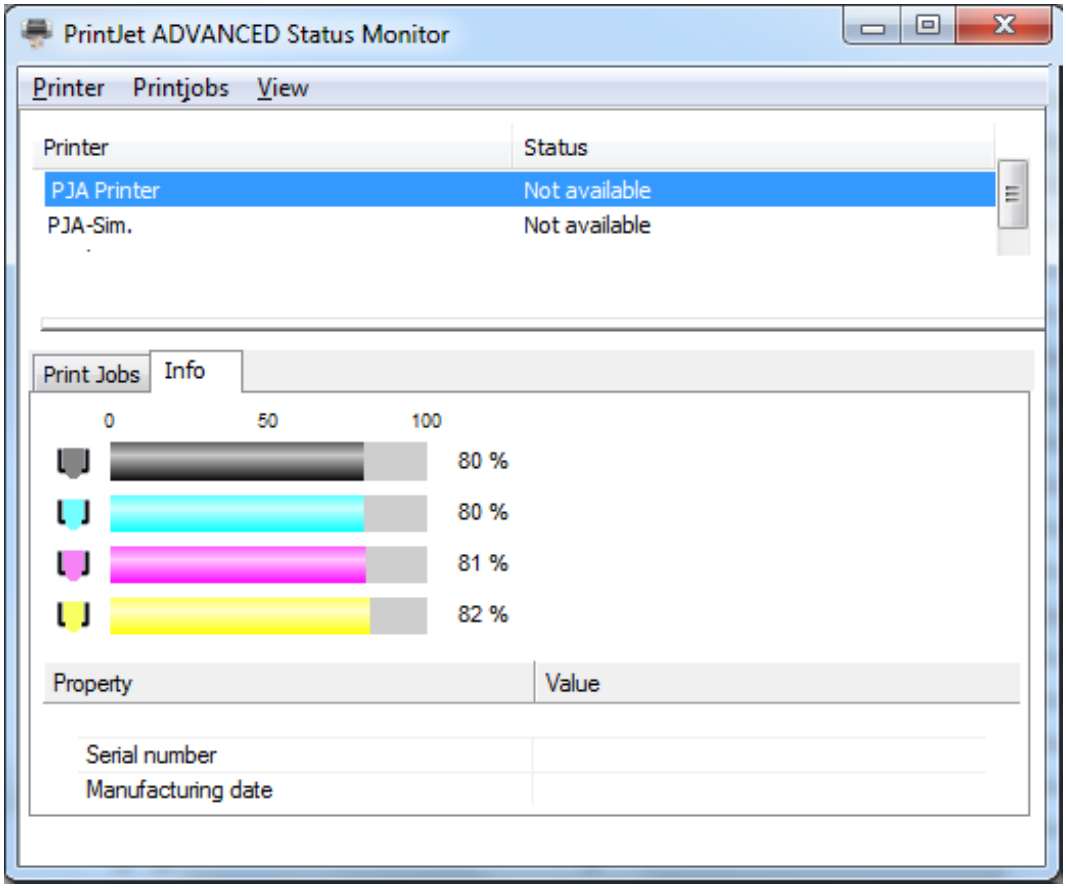
To delete existing print jobs, select the option on the Print**Jet ADVANCED** Status Monitor's "Print jobs" menu.

To change the number of information columns shown, see section "Settings for the Print**Jet ADVANCED** Status Monitor".

Information about the PrintJet ADVANCED

You can see information about the printer via the "Info" tab.

The information shown includes, for example, the fill level and expiration date of the individual ink cartridges.


PrintJet ADVANCED Status Monitor
Printer
Printjobs
View
Printer
Status
PJA Printer
Not available
PJA-Sim.
Not available
Print Jobs
Info
0
50
100
80 %
80 %
81 %
82 %
Property
Value
Serial number
Manufacturing date

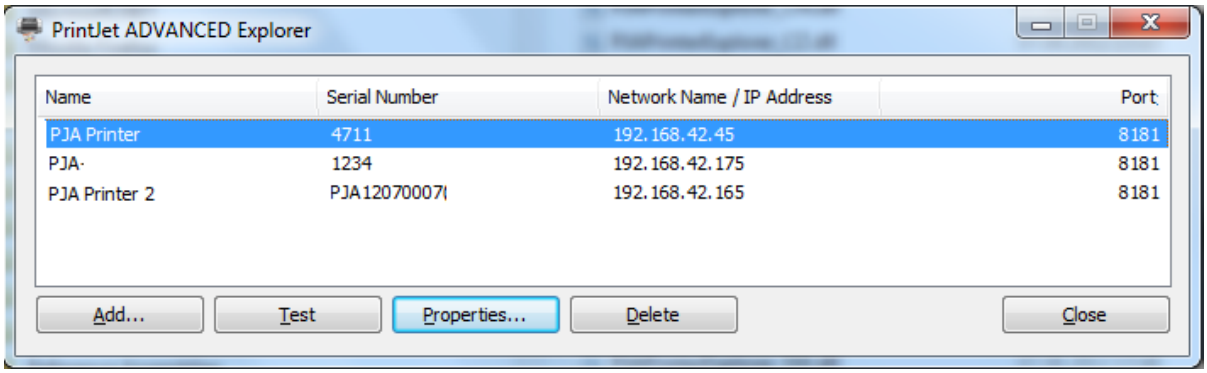
PrintJet ADVANCED Explorer

You can add or remove Print**Jet ADVANCED** printers via the Print**Jet ADVANCED** Explorer.

Unlike conventional printers, there is no need to install a driver for the Print**Jet ADVANCED** because it is not a network printer.

The Print**Jet ADVANCED** contains its own internal computer which needs to be added to the network via an IP address.

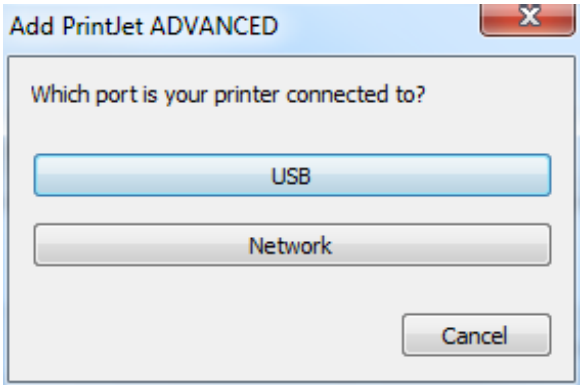
Start the Print**Jet ADVANCED** Explorer via the Windows start menu (folder "Weidmueller").



Adding a PrintJet Advanced printer

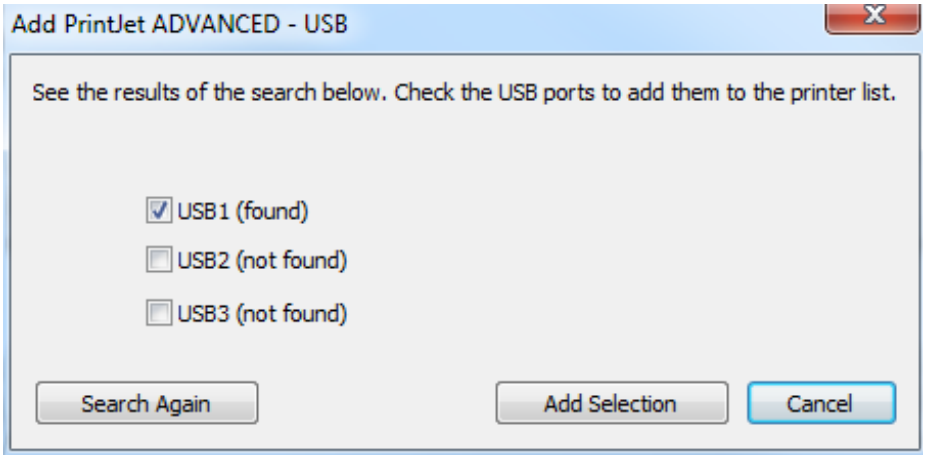
To add a Print**Jet ADVANCED** printer, start the Print**Jet ADVANCED** Explorer and click on the **Add…** button.

- Choose how you want to connect your printer.



USB port

- Click on the USB button.
- The program automatically searches for connected printers

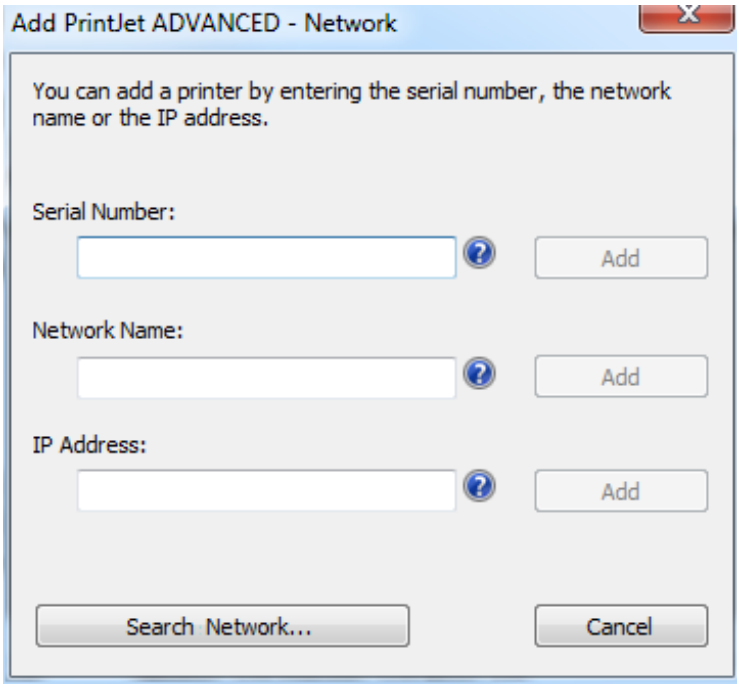

Add PrintJet ADVANCED - USB
See the results of the search below. Check the USB ports to add them to the printer list.
USB1 (found)
USB2 (not found)
USB3 (not found)
Search Again
Add Selection
Cancel

- Select the required USB port.
- Click on the Add Selection button.

Network interface

- Click on the Network button.

- In the dialog, enter the settings for the printer on the network and click on the "Add" button or
- Click on the Search Network… button and, in the search dialog, click on Add Selected Printers.



To test the settings, select the test function (see "Testing a Print**Jet ADVANCED** printer").

Testing a PrintJet Advanced printer

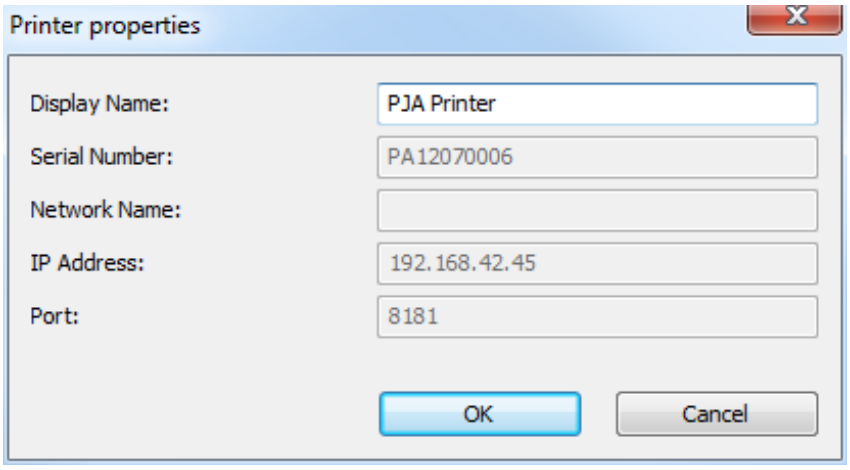
To test the accessibility of a connected Print**Jet ADVANCED** printer, start the Print**Jet ADVANCED** Explorer, select the required printer from the list and click on the **Test** button.

If the connection test fails, check the settings for the printer (see "Properties of a Print**Jet ADVANCED** printer“).

Properties of a PrintJet ADVANCED printer

To display and adjust the properties of a connected Print**Jet ADVANCED** printer, start the Print**Jet ADVANCED** Explorer, select the required printer from the list and click on the **Properties** button.

A dialog opens in which you can set the name of the printer and, if applicable, the port.


Printer properties
Display Name:
PJA Printer
Serial Number:
PA12070006
Network Name:
IP Address:
192.168.42.45
Port:
8181
OK
Cancel

Activating the plotter

Introduction

This chapter describes how to set up and activate the plotter and how to assign it to captioned MultiCard mats, labels etc., as well as the plotting options.

The plotter can be connected via the Centronics or USB port.

For details of general printing functions, please refer to chapter "Printing".

Plot mode

In plot mode, only the functions and elements relevant to the plotter are shown on the user interface.

The following elements are permitted in plot mode:

7. Graphics, provided they are plotter symbols (*.mps files)

8. Text fields containing plotter font characters

9. Lines

All elements are shown in black-and-white.

On entering plot mode, all layers are checked for unplottable elements. If unplottable elements are found, a message appears.
Such elements (e.g. barcodes) are no longer shown, but stay present internally. All elements are shown again on quitting plot mode.

- To switch to plot mode, select **File** > **Toggle Plot Mode**, or click on the following icon in the toolbar:

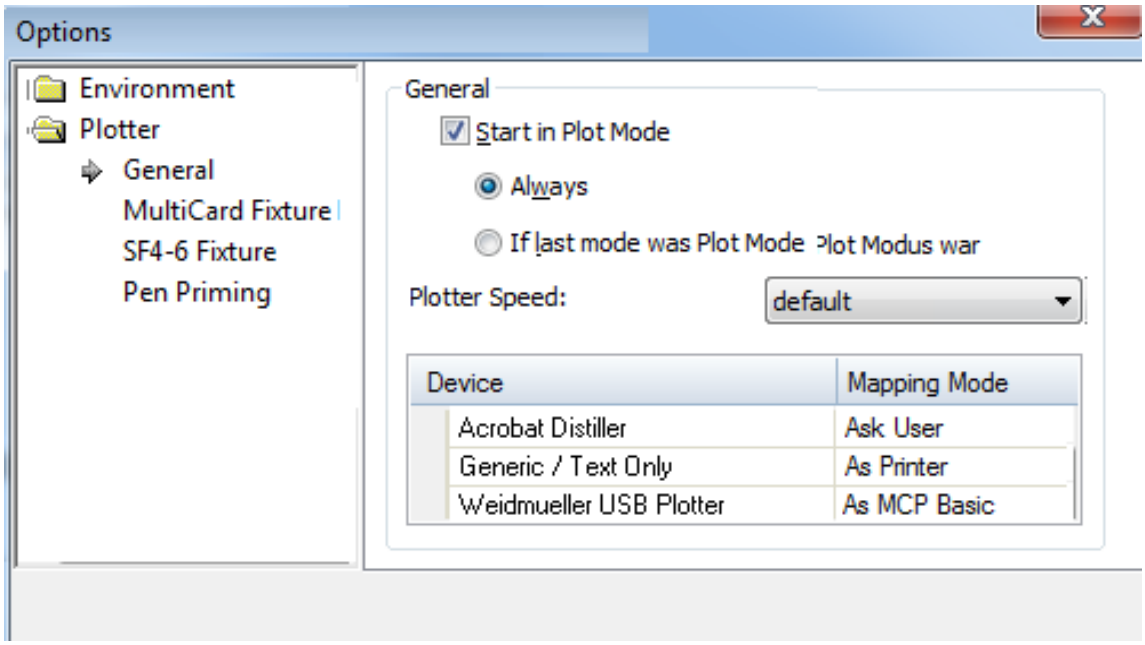
-

Plot mode is active when "Plot mode" is written next to the version number or when the following icon in the toolbar appears depressed:

On entering plot mode, all elements in the lock layer remain visible so that gaps that could possibly damage the plotter pen remain visible.
However, the lock layer is not evaluated in plot mode.

Startup options for plot mode

The display in plot mode can be set up via the options dialog (select **Tools** > **Options**).



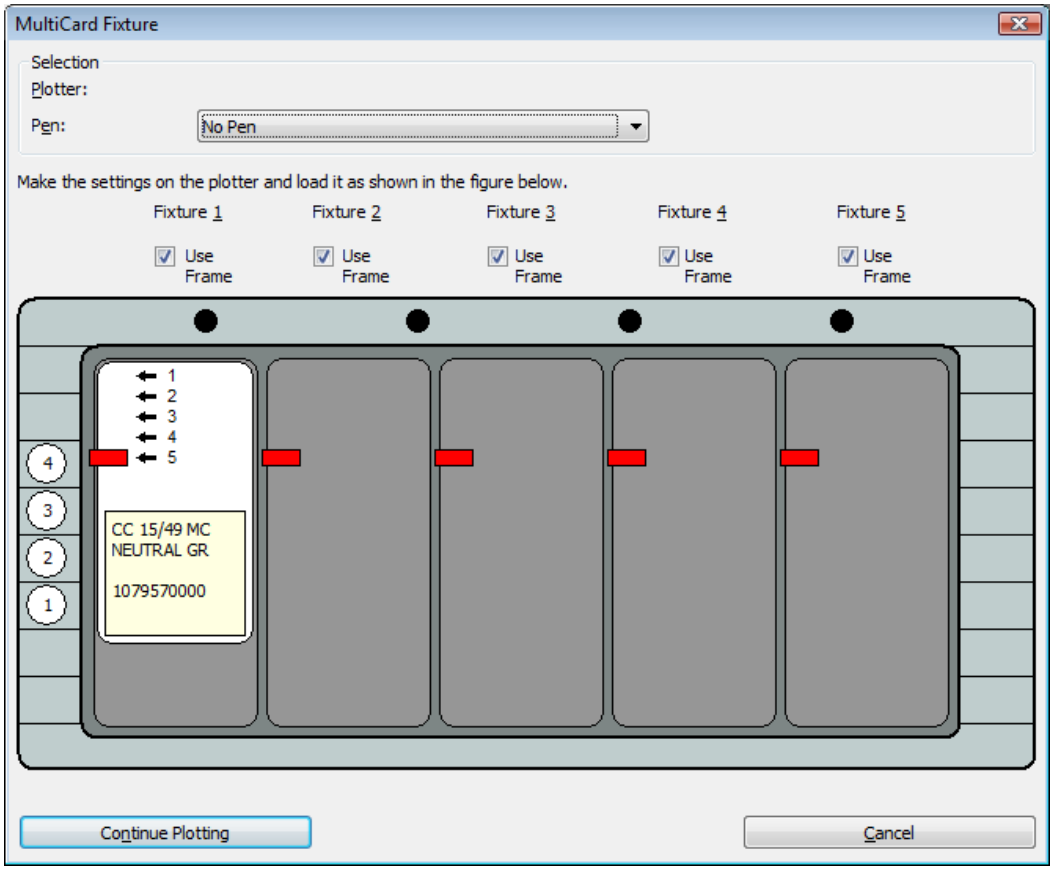
Check "Start in plot mode" if you want plot mode to run when M-Print® Pro restarts or opens a saved M-Print® file or creates a new project.

Printing/plotting

Plotting is carried out in the same way as printing (see "Printing").
A plotter must be mapped to the marker type beforehand (see "Mapping a plotter to a marker type").
Afterwards, the marker type can be adjusted (see "Adjusting the marker type to the printer") and the plotter can be calibrated (see "Adjusting the marker type to the plotter").

Selecting the pen and inlay

Before plotting begins, a dialog appears with the settings for the selected marker type.



Selecting the pen

Select the pen that is to be used in the plotter. The default setting for the pen is defined in the calibration dialog (see section "Calibration dialog").

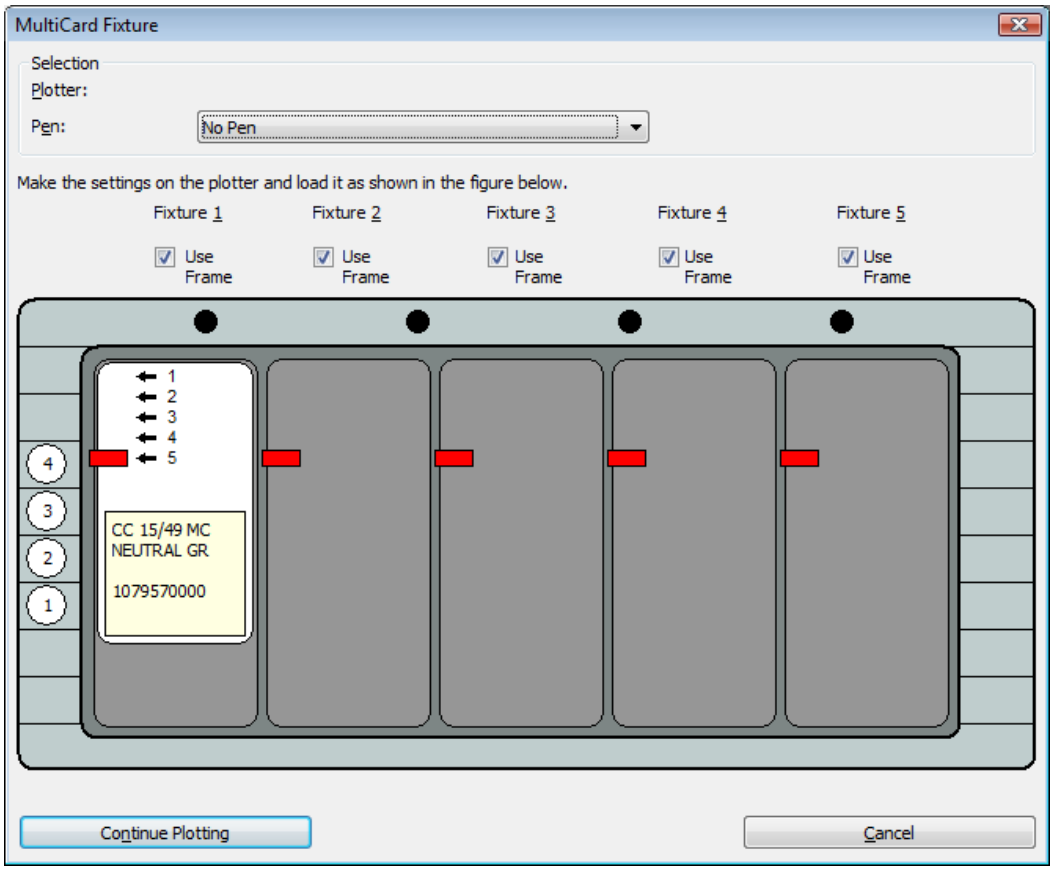
If "No pen" is selected, an external pen can be used that is not returned to the pen holder.

Step settings for the inlay

The step settings for the inlay are shown when printing on a MultiCard.
Place the inlay on the step shown (1 to 5). Note that an inlay is not required with some MultiCards.

Changing the marker type

When printing several pages or marker types in a project, a dialog shows which fixture will be printed next and with which marker type.

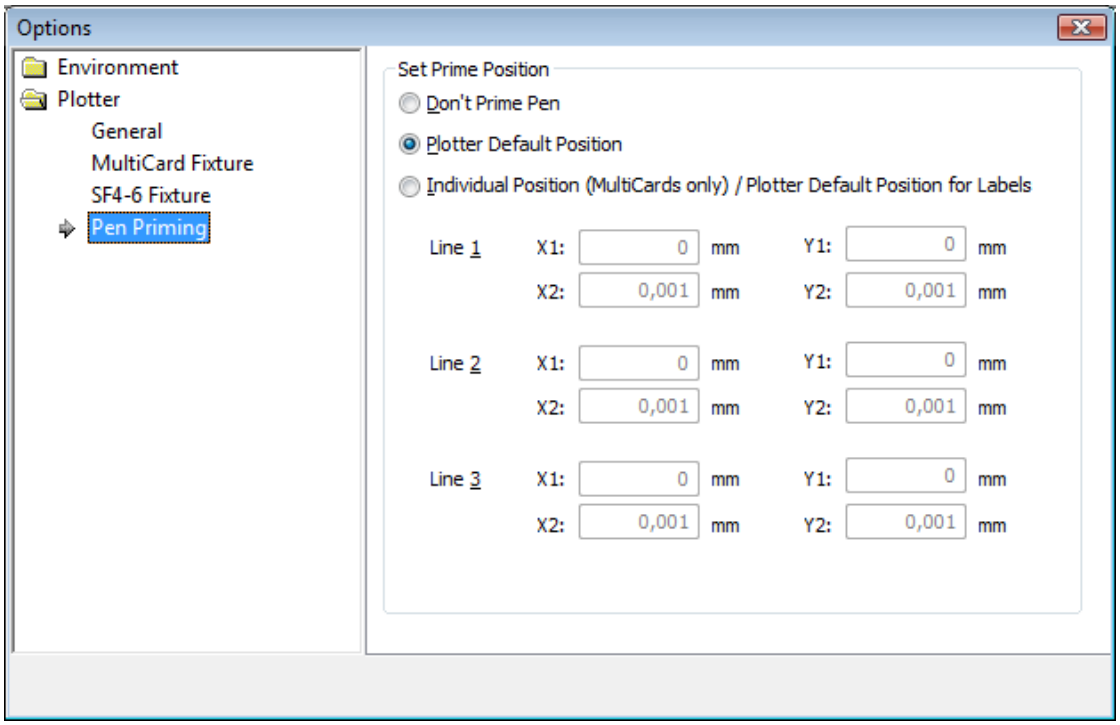


- Click on the "Continue Plotting" button to send the configuration as shown to the plotter.
  If several pages or marker types are present, the next configuration is shown.
  After plotting, the plotter waits until you click on the button again.
- Click on "Skip" if the configuration shown is not to be printed.
  If the project contains further pages or marker types, the next configuration is shown; otherwise the printing process is terminated.
- Click on "Cancel" to terminate the entire printing process.

Adjusting the pen priming position

The default pen priming position of the plotter is set to two blocks next to the pen holder, which, accordingly, become dirty quickly.
To adjust the pen priming position, select **Tools** > **Options...**

The pen priming position of the plotter can be set on the "Test pen" page.



The adjusted pen test position is only valid for MultiCards. The default plotter position is still used for labels.

The adjusted pen priming position takes into account the "Offset X" and "Offset Y" parameters of the MultiCard.

☝ Please note that an incorrectly selected pen priming position may result in damage to the pen. Always test your settings without a pen first!

Mapping a plotter to a marker type

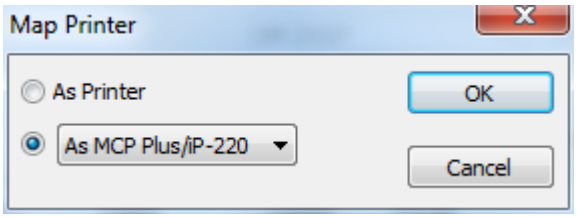
A printer or a plotter must be mapped to every marker type.

If no printer has been mapped to any or all of the marker types to be printed, confirming the message that appears sends the data to the default printer.

- Open the print dialog by selecting **File** > **Print…**
- In the lower selection box, select the marker type to which you want to map a printer, select a printer under "Printer" and click on **Map** to confirm your input.

  The selected printer is automatically assigned to this marker type whenever it is printed.

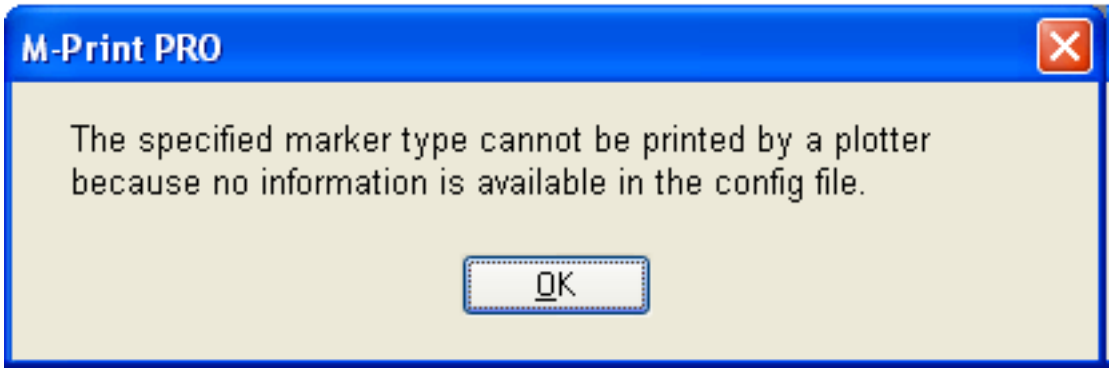
- In the window that now opens, choose whether you want to assign the selected printer/plotter as a printer or as a plotter.



  If you select "as plotter", printing is subjected to the limitations of plot mode..

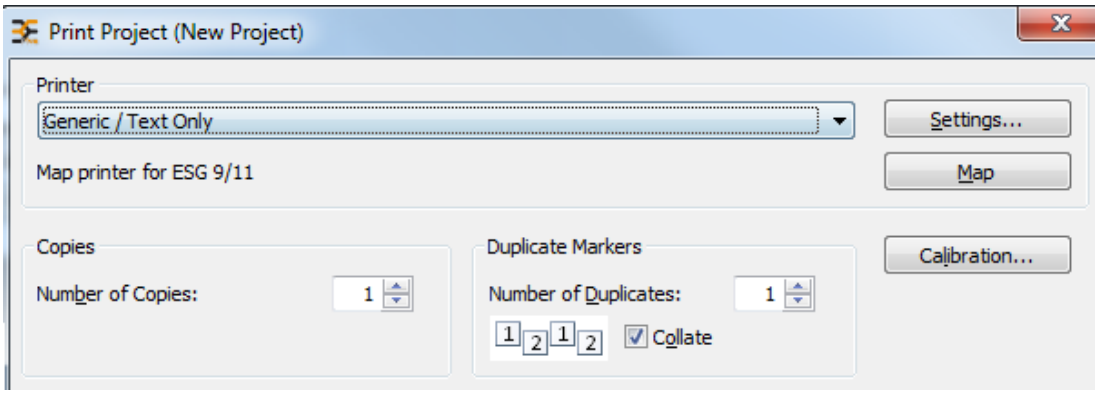
  You can revoke this definition at any time via the options dialog (see section "Adjusting mapped printers").

If you select a marker type to which a plotter cannot be assigned (e.g. endless labels), a warning appears.

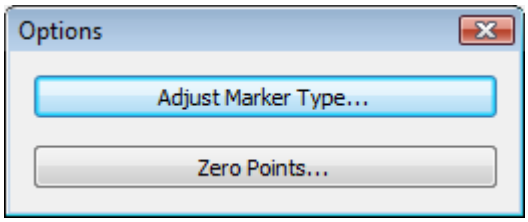

M-Print PRO
The specified marker type cannot be printed by a plotter because no information is available in the config file.
OK

Adjusting the marker type to the plotter

- In order to adjust a mapped plotter to the marker type, click on the **Calibration** button.

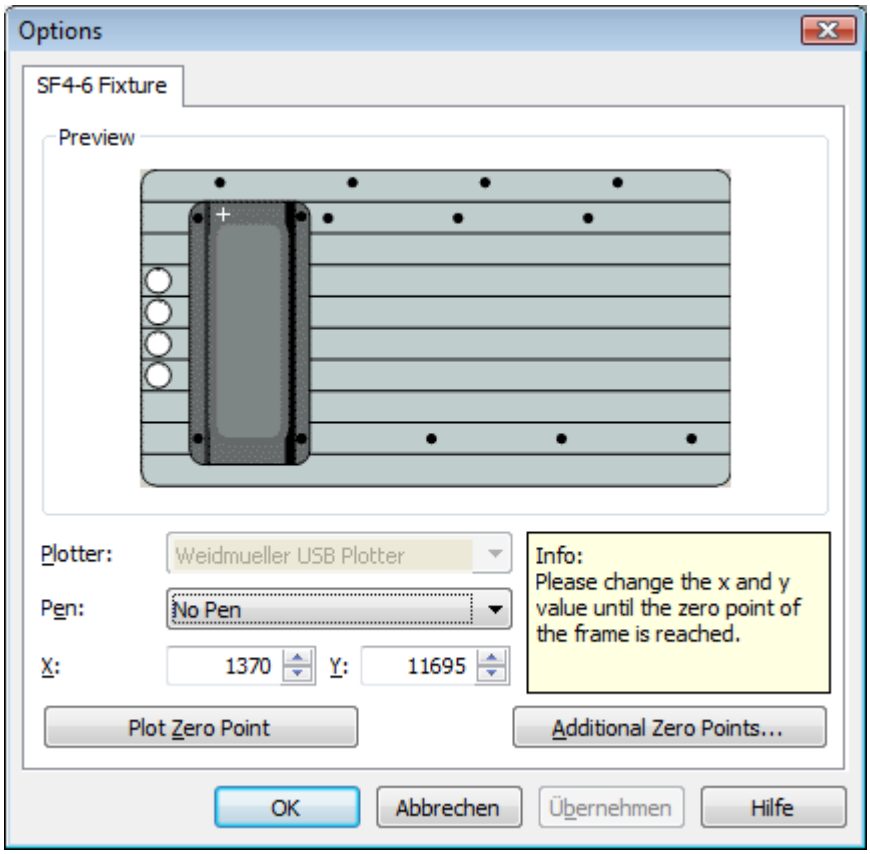


In the window that appears you can choose whether you want to adjust the marker type (see "Adjusting the marker type to the printer") or calibrate the zero points of the plotter.



Setting the zero points

The following window appears.
(The appearance of the image depends on the marker type.)



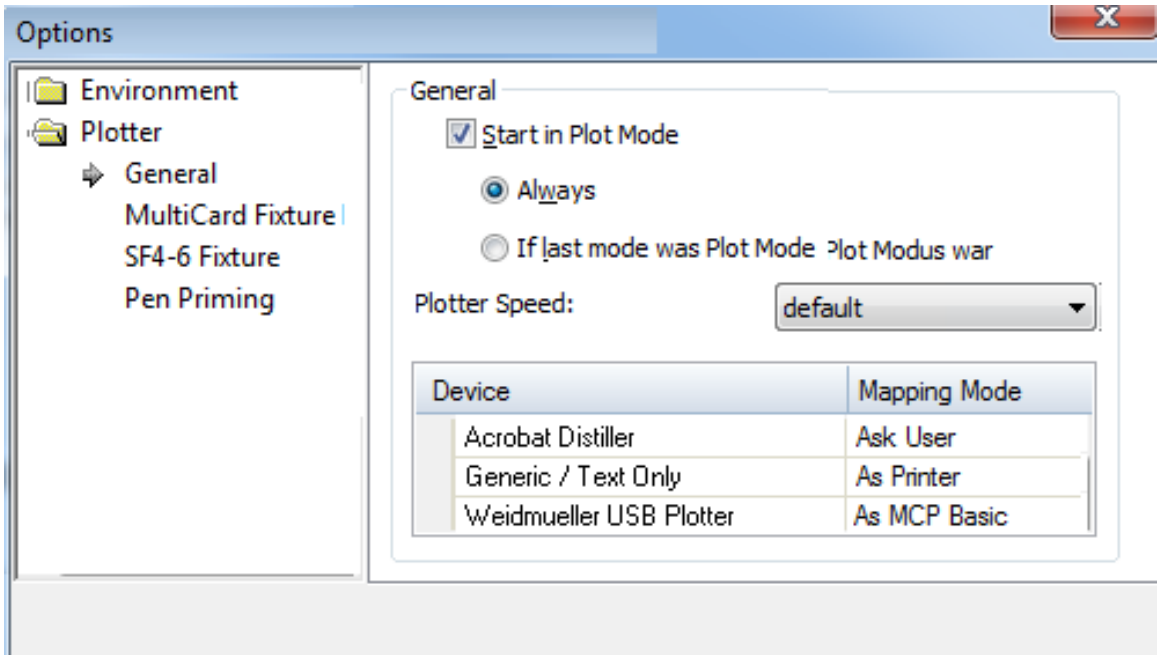
- Select the pen you want to use for plotting (see "Selecting the pen and inlay").
- To calibrate the zero point, enter the coordinates in the X and/or Y fields and then click on "Print zero point".
- For a fine adjustment, click in the X and/or Y boxes and move the zero point using the and keys (for X coordinates) and/or the and keys (for Y coordinates).
- Click on "Additional zero points..." in order to adjust other existing zero points.

These settings can also be preset in the options dialog (see "Calibration dialog").

Adjusting mapped printers

Select **Tools** > **Options...**

You will find the current mapping of printers on the "General" page of the plotter.



You can choose from three mapping modes:

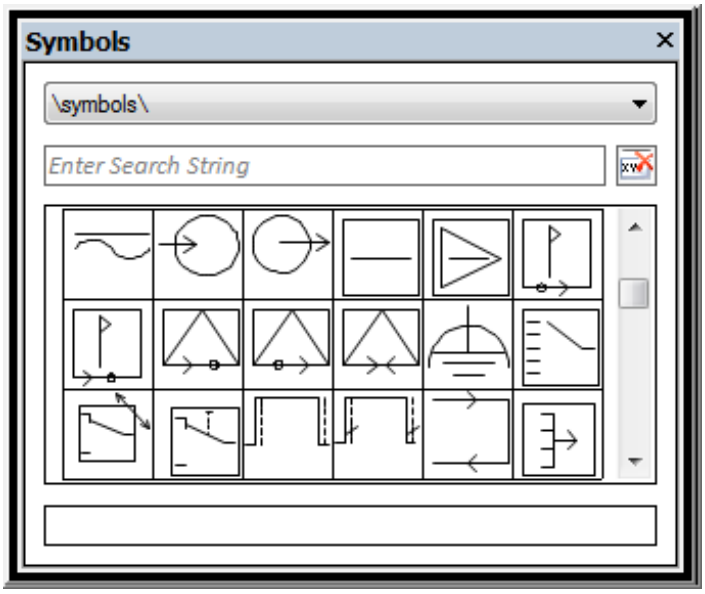
1. As printer
   The device is always assigned as a printer when "Map" is selected in the print dialog.

2. As plotter
   The device is always assigned as a plotter when "Map" is selected in the printer dialog.

3. Ask user
   The "Map printer" dialog appears whenever this device is assigned.

Symbol Explorer/Plotter Symbol Editor

Plotter symbols (*.mps) and a selection box for symbol subdirectories have been added to the Symbol Explorer.



You can find more information about the Symbol Explorer in the chapter "General operation", section "Inserting symbols".

Editing/creating plotter symbols

Creating a new plotter symbol

- In the Symbol Explorer, right-click on an empty symbol field and then select **Plotter Symbol Editor...**

Editing a plotter symbol

- Right-click on a plotter symbol and then select **Edit with Plotter Symbol Editor...**

Calibration dialog

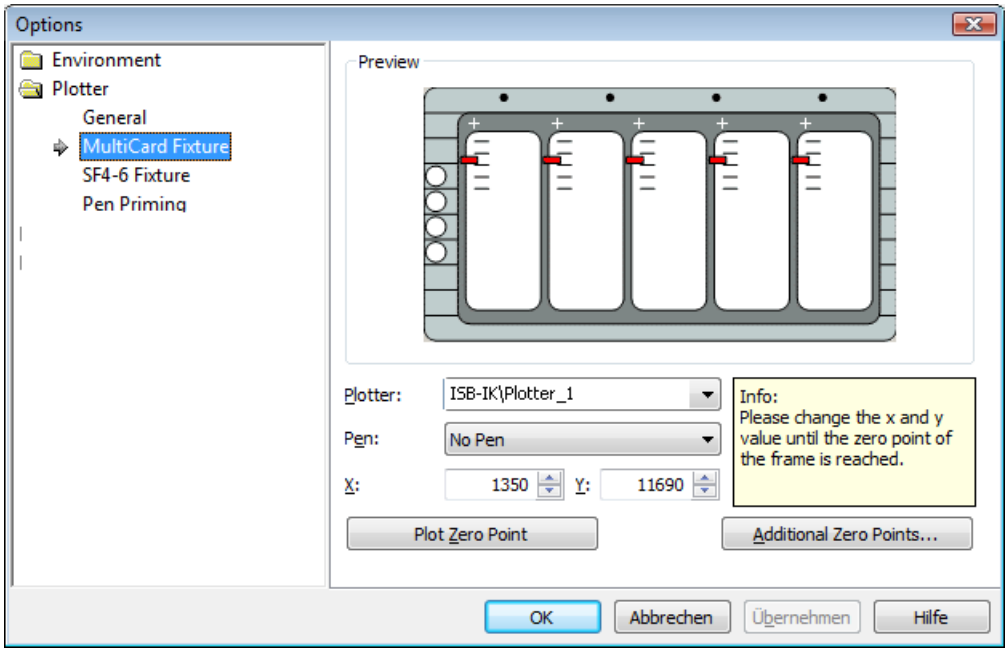
There are three different fixtures that can be used with the plotter, depending on the marker type selected.
The settings for these fixtures can be made in the calibration dialog (zero point, pen, etc.).

- Select **Tools** > **Options...**
  The options dialog opens.

The calibration instructions can be found in the "printersetup.pdf" file included.

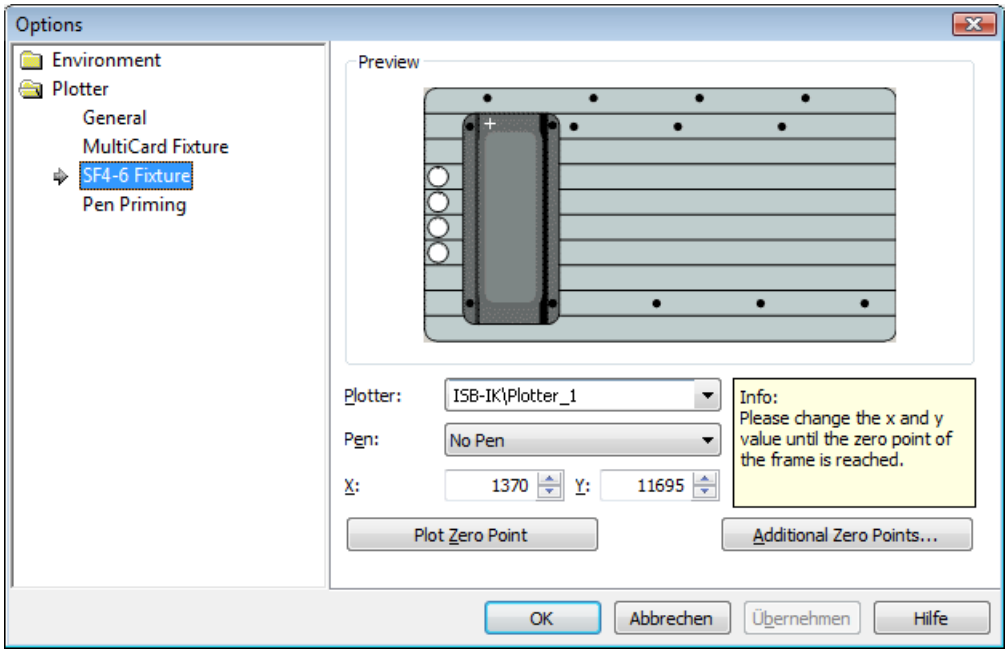
MultiCard fixture

- In the options dialog, select "MultiCard Fixture".



SF4-6 fixture

- In the options dialog, select "SF4-6 Fixture".


Options
Environment
Plotter
General
MultiCard Fixture
SF4-6 Fixture
Pen Priming
Preview
Plotter:
ISB-IK\Plotter_1
Pen:
No Pen
X:
1370
Y:
11695
Info:
Please change the x and y value until the zero point of the frame is reached.
Plot Zero Point
Additional Zero Points...
OK
Abbrechen
Übernehmen
Hilfe

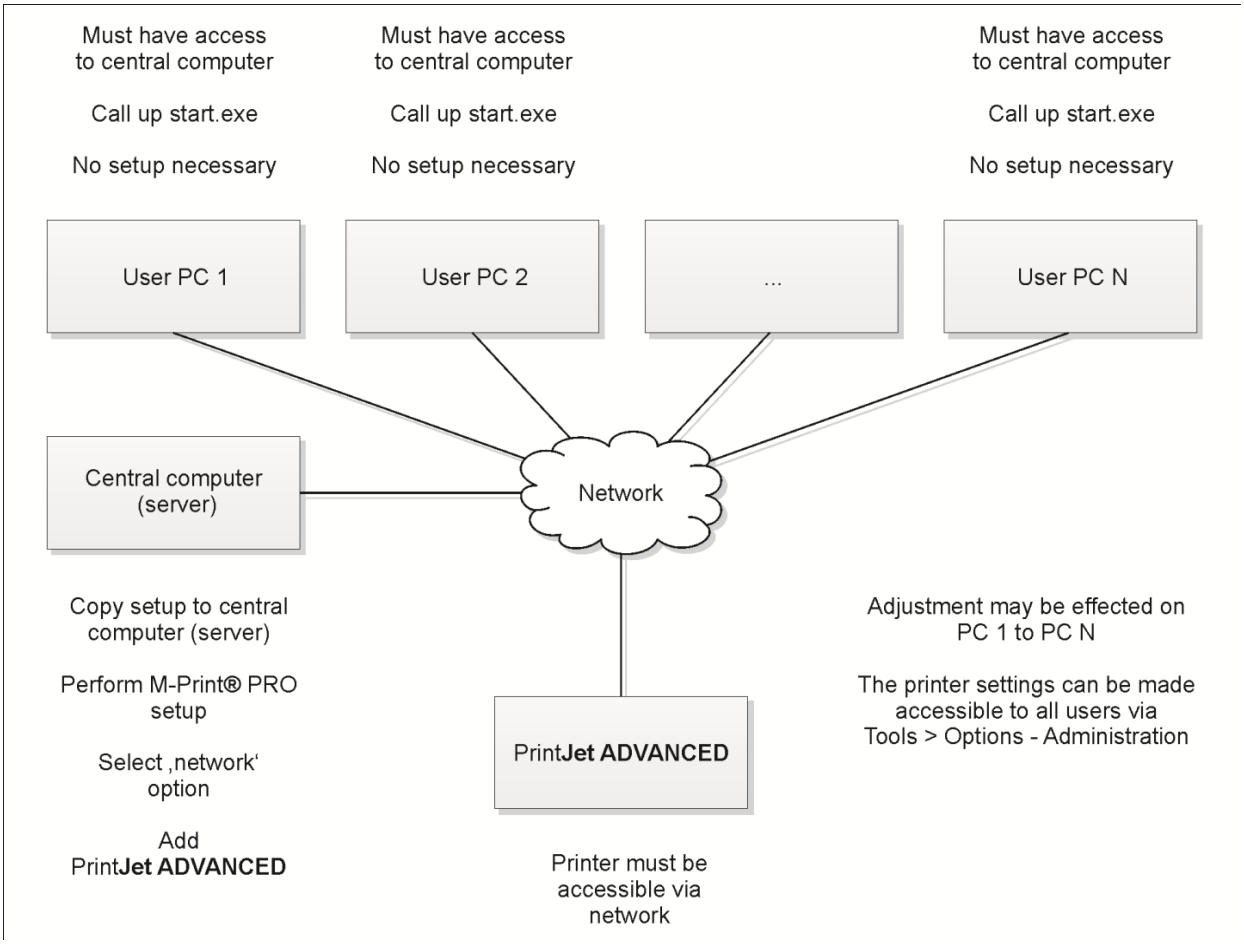
Network version

Introduction

Installation should be carried out by a specialist. Administrator rights are required for this process.

The network version of M-Print® PRO is used when multiple users need to work with the software in a network. Instead of installing M-Print® PRO on each of their computers, here it is only necessary to install the software centrally (Setup.exe on a server or central PC). The client PCs (or users) access M-Print® PRO via shared network paths.

Example scenario:

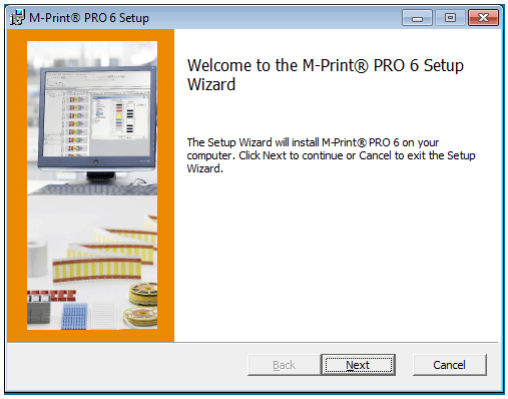

Must have access to central computer
Call up start.exe
No setup necessary
Must have access to central computer
Call up start.exe
No setup necessary
Must have access to central computer
Call up start.exe
No setup necessary
User PC 1
User PC 2
...
User PC N
Central computer (server)
Network
Copy setup to central computer (server)
Perform M-Print® PRO setup
Select ‚network' option
Add PrintJet ADVANCED
PrintJet ADVANCED
Printer must be accessible via network
Adjustment may be effected on PC 1 to PC N
The printer settings can be made accessible to all users via Tools > Options - Administration

Printing is only possible via the network version when the printers to be used are connected to the network via a network cable (not via USB).

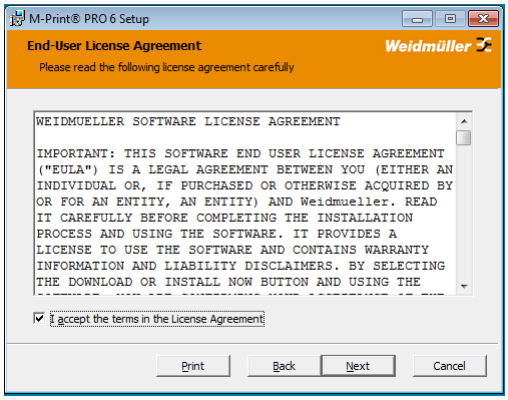
Setup

- Run the Setup program.

The installation process starts automatically and the setup wizard appears.

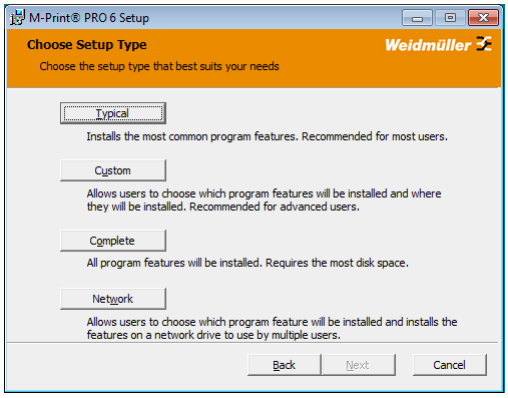

M-Print® PRO 6 Setup
Welcome to the M-Print® PRO 6 Setup Wizard
The Setup Wizard will install M-Print® PRO 6 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Back
Next
Cancel

- Click the **Next** button.

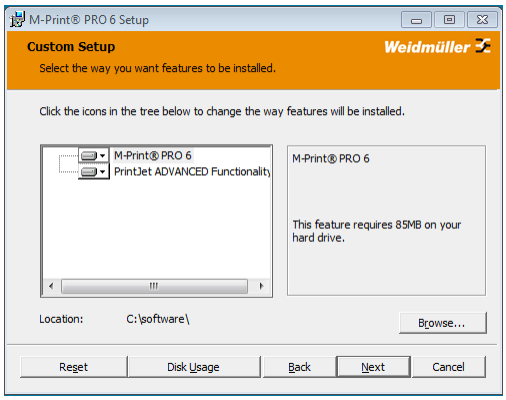

M-Print® PRO 6 Setup
End-User License Agreement
Please read the following license agreement carefully
Weidmüller
WEIDMUELLER SOFTWARE LICENSE AGREEMENT
IMPORTANT: THIS SOFTWARE END USER LICENSE AGREEMENT ("EULA") IS A LEGAL AGREEMENT BETWEEN YOU (EITHER AN INDIVIDUAL OR, IF PURCHASED OR OTHERWISE ACQUIRED BY OR FOR AN ENTITY, AN ENTITY) AND Weidmueller. READ IT CAREFULLY BEFORE COMPLETING THE INSTALLATION PROCESS AND USING THE SOFTWARE. IT PROVIDES A LICENSE TO USE THE SOFTWARE AND CONTAINS WARRANTY INFORMATION AND LIABILITY DISCLAIMERS. BY SELECTING THE DOWNLOAD OR INSTALL NOW BUTTON AND USING THE
I accept the terms in the License Agreement
Print
Back
Next
Cancel

- Accept the terms in the license agreement and press the **Next** button.

- Choose the setup type in the next window:


M-Print® PRO 6 Setup
Choose Setup Type
Choose the setup type that best suits your needs
Weidmüller
Typical
Installs the most common program features. Recommended for most users.
Custom
Allows users to choose which program features will be installed and where they will be installed. Recommended for advanced users.
Complete
All program features will be installed. Requires the most disk space.
Network
Allows users to choose which program feature will be installed and installs the features on a network drive to use by multiple users.
Back
Next
Cancel

- Press the **Network** button.

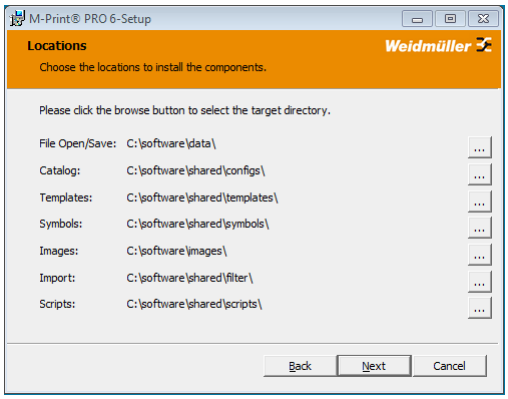


You can check how much storage space is free on the available drives with the **Disk Usage** button.

- Click the **Browse…** button.
- Select the target directory, for example C:\software\.

The users of the client computers must be able to access the target directory in both read and write mode.

- Click the **Next** button.

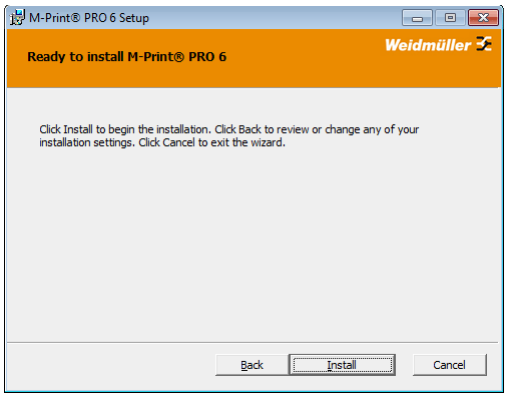


- For individual components such as the catalog you can use the […] button to choose other directories (for example the catalog in C:\data\catalog).

The target directories must be on a local drive of the server (network drives and UNC paths such as \\ServerName\ShareName\Path are not allowed).

All folders listed above must be accessible to users of the client computers over the network. Write rights are essential for some of the folders (see section **"Sharing folders"**).

- Click the **Next** button.

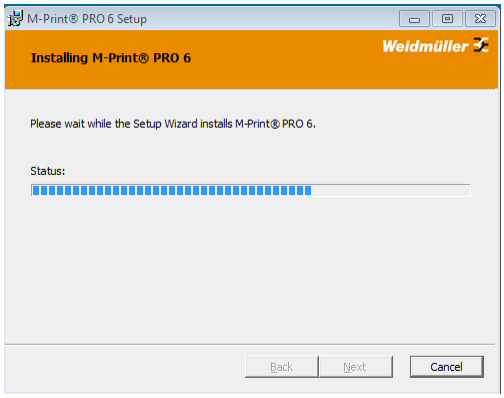

M-Print® PRO 6 Setup
Weidmüller
Ready to install M-Print® PRO 6
Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.
Back
Install
Cancel

- Click the **Install** button.

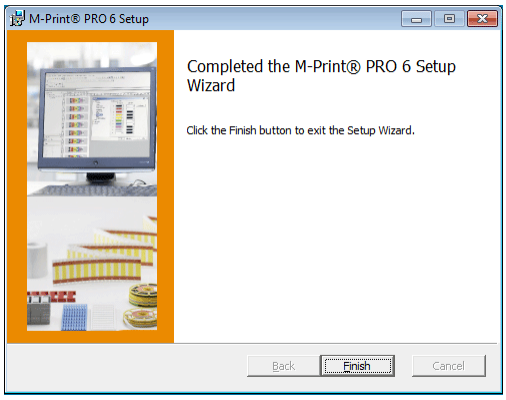
Microsoft Windows® User Account Control (UAC) might appear.

- If so, confirm here that changes are allowed to be made to Windows.

After your confirmation, the target directories are created and the files are copied to or created in them.



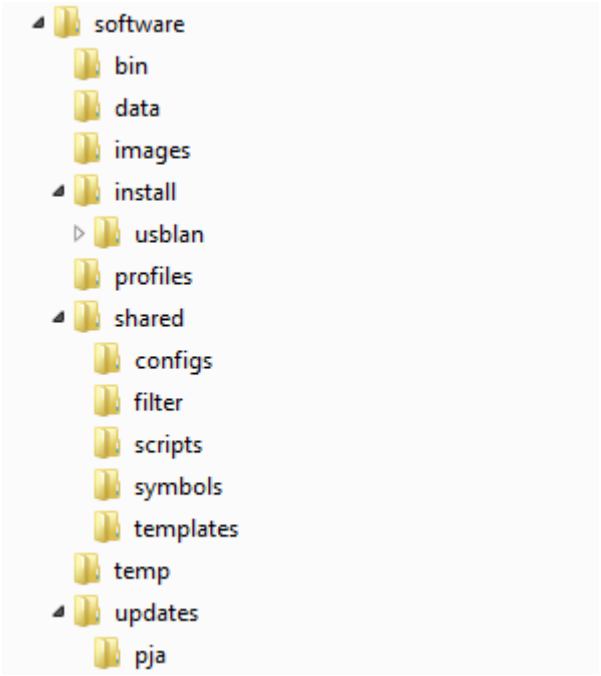
The progress is indicated by a bar.



- When installation has been completed, press the **Finish** button.

Sharing folders

M-Print® PRO uses the following folders; the folder structure depends on what was specified in the setup process:



The meaning of the folders is as follows:

Folder	Content	Write rights required
bin	This folder contains executable files.	-
data	Standard directory in which users should store their M-Print® PRO files.	X
images	This folder contains M-Print® PRO images. This folder is accessed when users choose images in M-Print® PRO via Insert > Image.	
install	The printer control software is stored in this folder during installation.	
usblan	This folder contains the printer control software to support USB communication.	
profiles	This folder contains user profiles (for example user-specific settings defined via Tools > Options, printer mappings etc.). M-Print® PRO reads settings in this folder and writes them here.	X
shared	This folder and its subfolders contain the M-Print® PRO program files.	X
configs	This folder contains the product catalog.	X
filter	This folder contains filter files that are needed for the import function (File > Import).	X
scripts	This folder contains import scripts.	X
symbols	This folder contains program symbols (for example for protective grounding) that can be inserted in M-Print® PRO.	X
templates	Templates must be stored in this folder.	X
temp	M-Print® PRO stores temporary files in this folder.	X
updates	The update routine stores data in this folder.	X
pja	Printer updates can be stored in this folder.	X

Tasks to be done on the clients

Setting up client computers

No further setup is required on the clients.

By default users must launch the "start.exe" file from the 'bin' folder. The actual storage location of the "start.exe" file depends on what was specified during setup (directories).
The dialog provides the necessary functions:

No Windows administrator rights are needed for these functions.

M-Print® PRO 6 Startup Screen
Weidmüller
Please choose an option
Open M-Print® PRO 6 ...
Create Desktop Link
Create Startmenu Links
Associate Files with M-Print® PRO 6
Install EPLAN Electric P8 Addon
Close
Copyright (C) 2013 Weidmueller Interface GmbH & Co. KG
Klingenbergstrasse 16, D-32758 Detmold
All rights reserved.

The window has the following buttons:

Open M-Print® PRO 6...
Clicking this button starts the M-Print® PRO program.

Create Desktop Link
By clicking this button you can create a link to M-Print® PRO on the desktop.

Create Start Menu Link
By clicking this button you can add M-Print® PRO to the Start menu.

Associate Files with M-Print® PRO 6
By clicking this button you can associate files with M-Print® PRO so that they are opened directly with M-Print® PRO when they are double-clicked.
Install EPLAN Electric P8 Addon
This function is not required for the Print**Jet ADVANCED**.

Close

You close the start screen with the [Close] button.

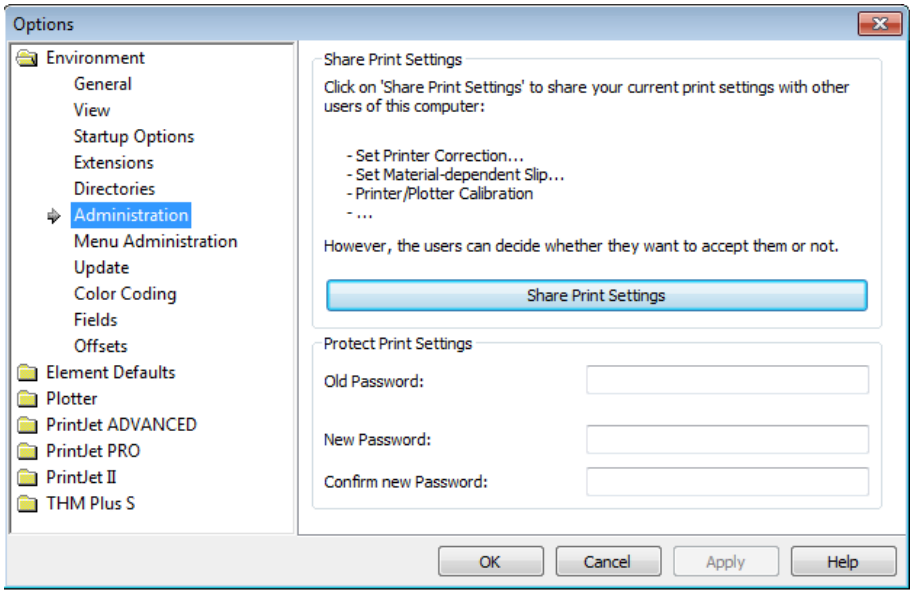
Transferring settings to clients

Current print settings for the network version can be provided to other users of the network version.

With the following function you can share these settings with the other client PCs automatically.

- Start the M-Print® PRO program.
- In M-Print® PRO choose Tools and then Options.

The following window appears:



- Click the **Share Print Settings** button.

The next time the users start up their PCs they are notified of the settings that have been made and can decide whether they want to adopt them or not.

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